

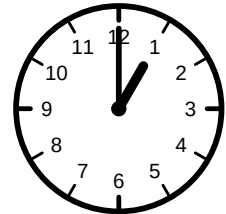
Kangaroo-Style Math Practice, Grades 1-2, Set 1

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

- 1.** The clock shows the time a picnic starts. The picnic lasts 4 hours. What time does it end?

3 pts



(A) 4:00 (B) 5:00 (C) 6:00 (D) 5:30 (E) 1:00

- 2.** Today is Saturday. What day of the week will it be in 5 days?

3 pts

(A) Wednesday (B) Friday (C) Sunday (D) Thursday (E) Saturday

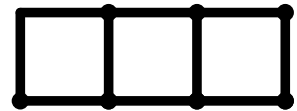
- 3.** I think of a number. When I add 8, I get 16. What is my number?

4 pts

(A) 7 (B) 8 (C) 9 (D) 10 (E) 16

- 4.** How many matchsticks were used to make this picture?

4 pts



(A) 8 (B) 9 (C) 10 (D) 11 (E) 12

- 5.** What number comes next? 12, 15, 18, 21, ?

5 pts

(A) 22 (B) 23 (C) 24 (D) 25 (E) 27

- 6.** Same shapes stand for the same number. What number is the star?

5 pts

$$\triangle + \triangle = 10$$

$$\triangle + \star = 6$$

(A) 1 (B) 3 (C) 5 (D) 6 (E) 10

Kangaroo-Style Math Practice, Grades 1-2, Set 1

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(B) 5:00**

Move the hour hand forward 4 hours: the picnic ends at 5:00.

2. **(D) Thursday**

Every 7 days it is Saturday again. $5 = 0 \times 7 + 5$, so count 5 days on from Saturday: Thursday.

3. **(B) 8**

Go backwards: $16 - 8 = 8$.

4. **(C) 10**

Count them: 4 standing up and 6 lying down, 10 in all.

5. **(C) 24**

Each number is 3 more than the one before, so the next one is $21 + 3 = 24$.

6. **(A) 1**

Two triangles make 10, so one triangle is 5. Then $5 + \text{star} = 6$, so the star is 1.

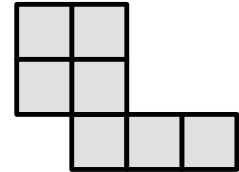
Kangaroo-Style Math Practice, Grades 1-2, Set 2

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

- 1.** How many small squares make up this shape?

3 pts



(A) 5 (B) 6 (C) 7 (D) 8 (E) 9

- 2.** How many whole numbers are bigger than 33 and smaller than 41?

3 pts

(A) 5 (B) 6 (C) 7 (D) 8 (E) 9

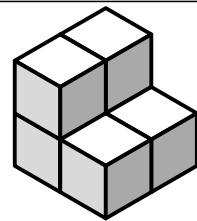
- 3.** In a yard there are 4 dogs and 2 chickens. How many legs are there in all?

4 pts

(A) 6 (B) 12 (C) 18 (D) 20 (E) 24

- 4.** How many cubes were used to build this tower? (No cubes are hidden at the back.)

4 pts



(A) 4 (B) 5 (C) 6 (D) 7 (E) 8

- 5.** Maya is 6 years old. Maya's cousin is 2 years older. How old will the cousin be in 2 years?

5 pts

(A) 6 (B) 8 (C) 9 (D) 10 (E) 11

- 6.** Noah buys 3 pencils for \$3 each and pays with a \$10 bill. How much change does Noah get?

5 pts

(A) \$0 (B) \$1 (C) \$2 (D) \$7 (E) \$9

Kangaroo-Style Math Practice, Grades 1-2, Set 2

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(C) 7**

Count them one by one: 7 squares.

2. **(C) 7**

The numbers are 34 up to 40, which is 7 numbers.

3. **(D) 20**

Dogs: $4 \times 4 = 16$ legs. Chickens: $2 \times 2 = 4$ legs. Together 20.

4. **(C) 6**

Count each column from the top: the heights add up to 6 cubes.

5. **(D) 10**

The cousin is $6 + 2 = 8$ now, and $8 + 2 = 10$ in 2 years.

6. **(B) \$1**

3 pencils cost $3 \times \$3 = \9 . The change is $\$10 - \$9 = \$1$.

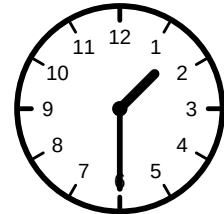
Kangaroo-Style Math Practice, Grades 1-2, Set 3

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. The clock shows the time a picnic starts. The picnic lasts 3 hours. What time does it end?

3 pts



(A) 1:30 (B) 4:30 (C) 5:30 (D) 4:00 (E) 3:30

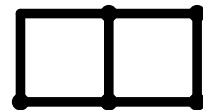
2. What number comes next? 12, 22, 32, 42, ?

3 pts

(A) 43 (B) 51 (C) 52 (D) 53 (E) 62

3. How many matchsticks were used to make this picture?

4 pts



(A) 5 (B) 6 (C) 7 (D) 8 (E) 9

4. Today is Sunday. What day of the week will it be in 5 days?

4 pts

(A) Monday (B) Friday (C) Saturday (D) Sunday (E) Thursday

5. Same shapes stand for the same number. What number is the star?

5 pts

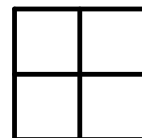
$$\bigcirc + \bigcirc = 8$$

$$\bigcirc + \star = 10$$

(A) 4 (B) 6 (C) 7 (D) 8 (E) 10

6. How many squares of any size can you find in this picture?

5 pts



(A) 3 (B) 4 (C) 5 (D) 6 (E) 7

Kangaroo-Style Math Practice, Grades 1-2, Set 3

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(B) 4:30**

Move the hour hand forward 3 hours: the picnic ends at 4:30.

2. **(C) 52**

Each number is 10 more than the one before, so the next one is $42 + 10 = 52$.

3. **(C) 7**

Count them: 3 standing up and 4 lying down, 7 in all.

4. **(B) Friday**

Every 7 days it is Sunday again. $5 = 0 \times 7 + 5$, so count 5 days on from Sunday: Friday.

5. **(B) 6**

Two circles make 8, so one circle is 4. Then $4 + \text{star} = 10$, so the star is 6.

6. **(C) 5**

There are 4 small squares, and the bigger squares made of several small ones add up to 5 in all.

Kangaroo-Style Math Practice, Grades 1-2, Set 4

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

- 1.** I think of a number. When I add 8, I get 18. What is my number?

3 pts

(A) 8 (B) 9 (C) 10 (D) 11 (E) 18

- 2.** In a yard there are 5 dogs and 3 chickens. How many legs are there in all?

3 pts

(A) 8 (B) 16 (C) 23 (D) 26 (E) 32

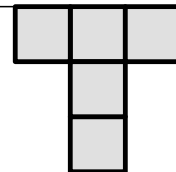
- 3.** How many whole numbers are bigger than 46 and smaller than 53?

4 pts

(A) 4 (B) 5 (C) 6 (D) 7 (E) 8

- 4.** How many small squares make up this shape?

4 pts



(A) 3 (B) 4 (C) 5 (D) 6 (E) 7

- 5.** Ivy is 5 years old. Ivy's cousin is 3 years older. How old will the cousin be in 2 years?

5 pts

(A) 4 (B) 7 (C) 8 (D) 9 (E) 10

- 6.** Noah buys 3 pencils for \$2 each and pays with a \$10 bill. How much change does Noah get?

5 pts

(A) \$3 (B) \$4 (C) \$5 (D) \$6 (E) \$8

Kangaroo-Style Math Practice, Grades 1-2, Set 4

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(C) 10**

Go backwards: $18 - 8 = 10$.

2. **(D) 26**

Dogs: $5 \times 4 = 20$ legs. Chickens: $3 \times 2 = 6$ legs. Together 26.

3. **(C) 6**

The numbers are 47 up to 52, which is 6 numbers.

4. **(C) 5**

Count them one by one: 5 squares.

5. **(E) 10**

The cousin is $5 + 3 = 8$ now, and $8 + 2 = 10$ in 2 years.

6. **(B) \$4**

3 pencils cost $3 \times \$2 = \6 . The change is $\$10 - \$6 = \$4$.

Kangaroo-Style Math Practice, Grades 1-2, Set 5

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

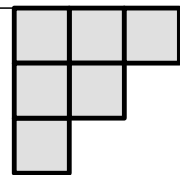
- 1.** What number comes next? 14, 24, 34, 44, ?

3 pts

(A) 45 (B) 53 (C) 54 (D) 55 (E) 64

- 2.** How many small squares make up this shape?

3 pts



(A) 4 (B) 5 (C) 6 (D) 7 (E) 8

- 3.** I think of a number. When I add 9, I get 20. What is my number?

4 pts

(A) 9 (B) 10 (C) 11 (D) 12 (E) 20

- 4.** How many matchsticks were used to make this picture?

4 pts



(A) 8 (B) 9 (C) 10 (D) 11 (E) 12

- 5.** Noah buys 2 pencils for \$4 each and pays with a \$10 bill. How much change does Noah get?

5 pts

(A) \$1 (B) \$2 (C) \$3 (D) \$6 (E) \$8

- 6.** Eli is 6 years old. Eli's cousin is 4 years older. How old will the cousin be in 2 years?

5 pts

(A) 4 (B) 8 (C) 10 (D) 11 (E) 12

Kangaroo-Style Math Practice, Grades 1-2, Set 5

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(C) 54**

Each number is 10 more than the one before, so the next one is $44 + 10 = 54$.

2. **(C) 6**

Count them one by one: 6 squares.

3. **(C) 11**

Go backwards: $20 - 9 = 11$.

4. **(C) 10**

Count them: 4 standing up and 6 lying down, 10 in all.

5. **(B) \$2**

2 pencils cost $2 \times \$4 = \8 . The change is $\$10 - \$8 = \$2$.

6. **(E) 12**

The cousin is $6 + 4 = 10$ now, and $10 + 2 = 12$ in 2 years.

Kangaroo-Style Math Practice, Grades 1-2, Set 6

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

- 1.** How many whole numbers are bigger than 57 and smaller than 65?

3 pts

(A) 5 (B) 6 (C) 7 (D) 8 (E) 9

- 2.** I think of a number. When I add 6, I get 16. What is my number?

3 pts

(A) 6 (B) 9 (C) 10 (D) 11 (E) 16

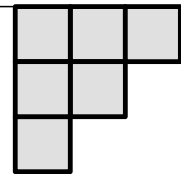
- 3.** What number comes next? 11, 21, 31, 41, ?

4 pts

(A) 42 (B) 50 (C) 51 (D) 52 (E) 61

- 4.** How many small squares make up this shape?

4 pts



(A) 4 (B) 5 (C) 6 (D) 7 (E) 8

- 5.** Kai buys 3 pencils for \$2 each and pays with a \$10 bill. How much change does Kai get?

5 pts

(A) \$3 (B) \$4 (C) \$5 (D) \$6 (E) \$8

- 6.** Noah is 5 years old. Noah's cousin is 2 years older. How old will the cousin be in 2 years?

5 pts

(A) 5 (B) 7 (C) 8 (D) 9 (E) 10

Kangaroo-Style Math Practice, Grades 1-2, Set 6

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(C) 7**

The numbers are 58 up to 64, which is 7 numbers.

2. **(C) 10**

Go backwards: $16 - 6 = 10$.

3. **(C) 51**

Each number is 10 more than the one before, so the next one is $41 + 10 = 51$.

4. **(C) 6**

Count them one by one: 6 squares.

5. **(B) \$4**

3 pencils cost $3 \times \$2 = \6 . The change is $\$10 - \$6 = \$4$.

6. **(D) 9**

The cousin is $5 + 2 = 7$ now, and $7 + 2 = 9$ in 2 years.

Kangaroo-Style Math Practice, Grades 1-2, Set 7

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

- 1.** Today is Tuesday. What day of the week will it be in 4 days?

3 pts

(A) Saturday (B) Friday (C) Monday (D) Sunday (E) Tuesday

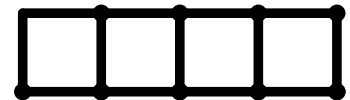
- 2.** In a yard there are 2 dogs and 4 chickens. How many legs are there in all?

3 pts

(A) 6 (B) 12 (C) 16 (D) 17 (E) 24

- 3.** How many matchsticks were used to make this picture?

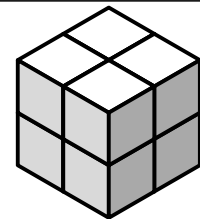
4 pts



(A) 12 (B) 13 (C) 14 (D) 15 (E) 16

- 4.** How many cubes were used to build this tower? (No cubes are hidden at the back.)

4 pts



(A) 4 (B) 6 (C) 8 (D) 9 (E) 10

- 5.** Same shapes stand for the same number. What number is the circle?

5 pts

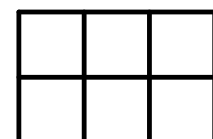
$$\star + \star = 16$$

$$\star + \bigcirc = 14$$

(A) 6 (B) 7 (C) 8 (D) 14 (E) 16

- 6.** How many squares of any size can you find in this picture?

5 pts



(A) 6 (B) 7 (C) 8 (D) 9 (E) 10

Kangaroo-Style Math Practice, Grades 1-2, Set 7

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(A) Saturday**

Every 7 days it is Tuesday again. $4 = 0 \times 7 + 4$, so count 4 days on from Tuesday: Saturday.

2. **(C) 16**

Dogs: $2 \times 4 = 8$ legs. Chickens: $4 \times 2 = 8$ legs. Together 16.

3. **(B) 13**

Count them: 5 standing up and 8 lying down, 13 in all.

4. **(C) 8**

Count each column from the top: the heights add up to 8 cubes.

5. **(A) 6**

Two stars make 16, so one star is 8. Then $8 + \text{circle} = 14$, so the circle is 6.

6. **(C) 8**

There are 6 small squares, and the bigger squares made of several small ones add up to 8 in all.

Kangaroo-Style Math Practice, Grades 1-2, Set 8

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

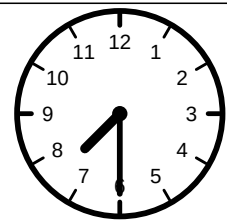
- 1.** What number comes next? 9, 12, 15, 18, ?

3 pts

(A) 19 (B) 20 (C) 21 (D) 22 (E) 24

- 2.** The clock shows the time a picnic starts. The picnic lasts 4 hours. What time does it end?

3 pts



(A) 11:30 (B) 12:30 (C) 10:30 (D) 11:00 (E) 7:30

- 3.** I think of a number. When I add 7, I get 15. What is my number?

4 pts

(A) 7 (B) 8 (C) 9 (D) 10 (E) 15

- 4.** How many whole numbers are bigger than 16 and smaller than 21?

4 pts

(A) 2 (B) 3 (C) 4 (D) 5 (E) 6

- 5.** Jack is 5 years old. Jack's cousin is 4 years older. How old will the cousin be in 2 years?

5 pts

(A) 3 (B) 7 (C) 9 (D) 10 (E) 11

- 6.** Sam buys 2 pencils for \$4 each and pays with a \$10 bill. How much change does Sam get?

5 pts

(A) \$1 (B) \$2 (C) \$3 (D) \$6 (E) \$8

Kangaroo-Style Math Practice, Grades 1-2, Set 8

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(C) 21**

Each number is 3 more than the one before, so the next one is $18 + 3 = 21$.

2. **(A) 11:30**

Move the hour hand forward 4 hours: the picnic ends at 11:30.

3. **(B) 8**

Go backwards: $15 - 7 = 8$.

4. **(C) 4**

The numbers are 17 up to 20, which is 4 numbers.

5. **(E) 11**

The cousin is $5 + 4 = 9$ now, and $9 + 2 = 11$ in 2 years.

6. **(B) \$2**

2 pencils cost $2 \times \$4 = \8 . The change is $\$10 - \$8 = \$2$.

Kangaroo-Style Math Practice, Grades 3-4, Set 1

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

- 1.** What number comes next? 4, 8, 16, 32, ?

3 pts

(A) 36 (B) 61 (C) 64 (D) 66 (E) 69

- 2.** Aria buys 5 books that cost \$9 each and pays with a \$50 bill. How much change does Aria get?

3 pts

(A) \$0 (B) \$5 (C) \$15 (D) \$41 (E) \$45

- 3.** I think of a number. I add 4, then multiply the result by 4, and get 60. What was my number?

4 pts

(A) 10 (B) 11 (C) 12 (D) 15 (E) 44

- 4.** Using each of the digits 7, 0 and 8 exactly once, what is the biggest 3-digit number you can make?

4 pts

(A) 708 (B) 780 (C) 807 (D) 870 (E) 880

- 5.** At a party, 6 friends meet. Each friend shakes hands once with every other friend. How many handshakes are there?

5 pts

(A) 12 (B) 15 (C) 16 (D) 21 (E) 30

- 6.** A straight fence is 35 m long. There is a post every 5 m, including one at each end. How many posts are there?

5 pts

(A) 6 (B) 7 (C) 8 (D) 9 (E) 10

Kangaroo-Style Math Practice, Grades 3-4, Set 1

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(C) 64**

Each number is double the one before: $32 \times 2 = 64$.

2. **(B) \$5**

The books cost $5 \times \$9 = \45 , so the change is $\$50 - \$45 = \$5$.

3. **(B) 11**

Work backwards: $60 \div 4 = 15$, then $15 - 4 = 11$.

4. **(D) 870**

Put the biggest digit first, then 7, and 0 last: 870.

5. **(B) 15**

Each of the 6 friends shakes 5 hands, which counts every handshake twice: $6 \times 5 \div 2 = 15$.

6. **(C) 8**

$35 \div 5 = 7$ gaps, and there is always one more post than gaps: 8.

Kangaroo-Style Math Practice, Grades 3-4, Set 2

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

- 1.** Using each of the digits 6, 0 and 8 exactly once, what is the biggest 3-digit number you can make?
3 pts

(A) 608 (B) 680 (C) 770 (D) 806 (E) 860

- 2.** Today Theo is 6 and Theo's sister is 9. In 5 years, how old will they be together?
3 pts

(A) 15 (B) 20 (C) 25 (D) 26 (E) 28

- 3.** 24 children go on a trip. Each van can take 5 children. What is the smallest number of vans they need?
4 pts

(A) 3 (B) 4 (C) 5 (D) 6 (E) 7

- 4.** A farm has only chickens and cows. Together they have 13 heads and 44 legs. How many cows are there?
4 pts

(A) 4 (B) 8 (C) 9 (D) 10 (E) 11

- 5.** In a chess club, 6 players each play exactly one game against every other player. How many games are played?
5 pts

(A) 14 (B) 15 (C) 16 (D) 21 (E) 30

- 6.** A straight fence is 36 m long. There is a post every 4 m, including one at each end. How many posts are there?
5 pts

(A) 8 (B) 9 (C) 10 (D) 11 (E) 12

Kangaroo-Style Math Practice, Grades 3-4, Set 2

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(E) 860**

Put the biggest digit first, then 6, and 0 last: 860.

2. **(C) 25**

Now they are $6 + 9 = 15$ together. Each one gets 5 years older, so add 10: 25.

3. **(C) 5**

$24 / 5 = 4$ with 4 left over, and those children need one more van: 5.

4. **(C) 9**

If all 13 animals were chickens there would be 26 legs. The extra 18 legs come from cows, 2 extra legs each, so there are 9 cows.

5. **(B) 15**

Each player plays 5 games, and every game has two players: $6 \times 5 / 2 = 15$ games.

6. **(C) 10**

$36 / 4 = 9$ gaps, and there is always one more post than gaps: 10.

Kangaroo-Style Math Practice, Grades 3-4, Set 3

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

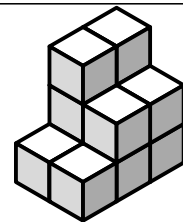
1. What number comes next? 15, 19, 23, 27, ?

3 pts

(A) 26 (B) 28 (C) 31 (D) 33 (E) 36

2. How many cubes were used to build this tower? (No cubes are hidden at the back.)

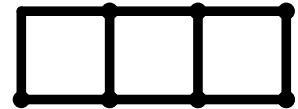
3 pts



(A) 6 (B) 10 (C) 12 (D) 13 (E) 14

3. A row of 3 squares needs 10 matchsticks, as shown. How many matchsticks are needed for a row of 8 squares?

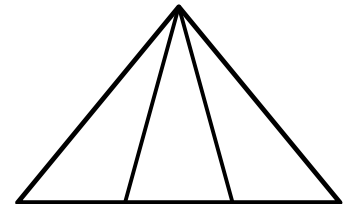
4 pts



(A) 24 (B) 25 (C) 26 (D) 30 (E) 32

4. How many triangles are there in this picture?

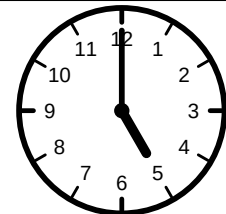
4 pts



(A) 3 (B) 4 (C) 5 (D) 6 (E) 8

5. A movie starts at the time shown on the clock and lasts 1 hour 30 minutes. At what time does it end?

5 pts



(A) 5:30 (B) 6:15 (C) 6:45 (D) 7:30 (E) 6:30

6. Today Ruby is 6 and Ruby's sister is 11. In 4 years, how old will they be together?

5 pts

(A) 17 (B) 21 (C) 25 (D) 26 (E) 30

Kangaroo-Style Math Practice, Grades 3-4, Set 3

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(C) 31**

The numbers go up by 4 each time: $27 + 4 = 31$.

2. **(C) 12**

Count each column from the top: the heights add up to 12 cubes.

3. **(B) 25**

The first square needs 4 sticks and each new square adds 3 more: $4 + 3 \times 7 = 25$.

4. **(D) 6**

Every pair of lines from the top corner makes a triangle with the bottom line: that is 6 triangles.

5. **(E) 6:30**

Start at 5:00, add 1 hour and then 30 minutes to reach 6:30.

6. **(C) 25**

Now they are $6 + 11 = 17$ together. Each one gets 4 years older, so add 8: 25.

Kangaroo-Style Math Practice, Grades 3-4, Set 4

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

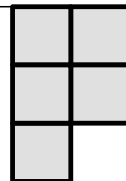
- 1.** Priya buys 5 books that cost \$7 each and pays with a \$50 bill. How much change does Priya get?
3 pts

(A) \$10 (B) \$15 (C) \$25 (D) \$35 (E) \$43

- 2.** I think of a number. I add 3, then multiply the result by 2, and get 30. What was my number?
3 pts

(A) 11 (B) 12 (C) 13 (D) 15 (E) 24

- 3.** The shape is made of squares with sides of 1 cm.
4 pts What is its perimeter?



side = 1 cm

(A) 5 cm (B) 8 cm (C) 10 cm (D) 12 cm (E) 20 cm

- 4.** Using each of the digits 1, 0 and 8 exactly once, what is the biggest 3-digit number you can make?
4 pts

(A) 108 (B) 180 (C) 720 (D) 801 (E) 810

- 5.** At a party, 4 friends meet. Each friend shakes hands once with every other friend.
5 pts How many handshakes are there?

(A) 6 (B) 7 (C) 8 (D) 10 (E) 12

- 6.** A straight fence is 8 m long. There is a post every 2 m, including one at each end.
5 pts How many posts are there?

(A) 3 (B) 4 (C) 5 (D) 6 (E) 7

Kangaroo-Style Math Practice, Grades 3-4, Set 4

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(B) \$15**

The books cost $5 \times \$7 = \35 , so the change is $\$50 - \$35 = \$15$.

2. **(B) 12**

Work backwards: $30 \div 2 = 15$, then $15 - 3 = 12$.

3. **(C) 10 cm**

Walk around the outside: there are 10 square sides on the edge, each 1 cm long, so $10 \times 1 = 10$ cm.

4. **(E) 810**

Put the biggest digit first, then 1, and 0 last: 810.

5. **(A) 6**

Each of the 4 friends shakes 3 hands, which counts every handshake twice: $4 \times 3 \div 2 = 6$.

6. **(C) 5**

$8 \div 2 = 4$ gaps, and there is always one more post than gaps: 5.

Kangaroo-Style Math Practice, Grades 3-4, Set 5

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

- 1.** What number comes next? 22, 28, 34, 40, ?

3 pts

(A) 43 (B) 44 (C) 46 (D) 48 (E) 50

- 2.** Using each of the digits 7, 0 and 3 exactly once, what is the smallest 3-digit number you can make?

3 pts

(A) 307 (B) 316 (C) 370 (D) 703 (E) 730

- 3.** 45 children go on a trip. Each van can take 6 children. What is the smallest number of vans they need?

4 pts

(A) 6 (B) 7 (C) 8 (D) 9 (E) 10

- 4.** Today is Friday. What day of the week will it be in 30 days?

4 pts

(A) Wednesday (B) Saturday (C) Monday (D) Sunday (E) Tuesday

- 5.** A straight fence is 24 m long. There is a post every 3 m, including one at each end. How many posts are there?

5 pts

(A) 7 (B) 8 (C) 9 (D) 10 (E) 11

- 6.** A farm has only chickens and cows. Together they have 8 heads and 20 legs. How many cows are there?

5 pts

(A) 1 (B) 2 (C) 3 (D) 5 (E) 6

Kangaroo-Style Math Practice, Grades 3-4, Set 5

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(C) 46**

The numbers go up by 6 each time: $40 + 6 = 46$.

2. **(A) 307**

A 3-digit number cannot start with 0, so start with 3, then 0, then 7: 307.

3. **(C) 8**

$45 \div 6 = 7$ with 3 left over, and those children need one more van: 8.

4. **(D) Sunday**

Every 7 days it is Friday again. $30 = 4 \times 7 + 2$, so count 2 days on from Friday: Sunday.

5. **(C) 9**

$24 \div 3 = 8$ gaps, and there is always one more post than gaps: 9.

6. **(B) 2**

If all 8 animals were chickens there would be 16 legs. The extra 4 legs come from cows, 2 extra legs each, so there are 2 cows.

Kangaroo-Style Math Practice, Grades 3-4, Set 6

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

- 1.** What number comes next? 25, 29, 33, 37, ?

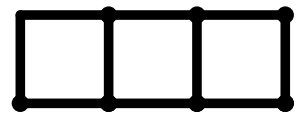
3 pts

(A) 38 (B) 39 (C) 41 (D) 43 (E) 45

- 2.** A row of 3 squares needs 10 matchsticks, as shown.

3 pts

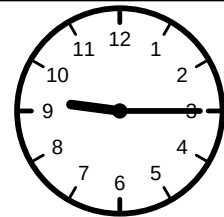
How many matchsticks are needed for a row of 8 squares?



(A) 24 (B) 25 (C) 26 (D) 30 (E) 32

- 3.** A movie starts at the time shown on the clock and lasts 1 hour 30 minutes. At what time does it end?

4 pts



(A) 10:30 (B) 11:45 (C) 10:45 (D) 10:00 (E) 9:45

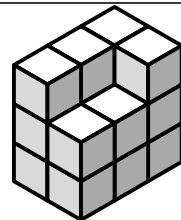
- 4.** Today Noah is 9 and Noah's sister is 12. In 5 years, how old will they be together?

4 pts

(A) 21 (B) 26 (C) 31 (D) 32 (E) 34

- 5.** How many cubes were used to build this tower? (No cubes are hidden at the back.)

5 pts



(A) 6 (B) 14 (C) 16 (D) 17 (E) 18

- 6.** In a chess club, 5 players each play exactly one game against every other player. How many games are played?

5 pts

(A) 9 (B) 10 (C) 11 (D) 15 (E) 20

Kangaroo-Style Math Practice, Grades 3-4, Set 6

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(C) 41**

The numbers go up by 4 each time: $37 + 4 = 41$.

2. **(B) 25**

The first square needs 4 sticks and each new square adds 3 more: $4 + 3 \times 7 = 25$.

3. **(C) 10:45**

Start at 9:15, add 1 hour and then 30 minutes to reach 10:45.

4. **(C) 31**

Now they are $9 + 12 = 21$ together. Each one gets 5 years older, so add 10: 31.

5. **(C) 16**

Count each column from the top: the heights add up to 16 cubes.

6. **(B) 10**

Each player plays 4 games, and every game has two players: $5 \times 4 / 2 = 10$ games.

Kangaroo-Style Math Practice, Grades 3-4, Set 7

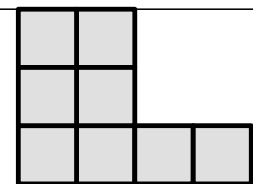
Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

- 1.** Sofia buys 5 books that cost \$7 each and pays with a \$50 bill. How much change does Sofia get?
3 pts

(A) \$10 (B) \$15 (C) \$25 (D) \$35 (E) \$43

- 2.** The shape is made of squares with sides of 1 cm.
3 pts What is its perimeter?



side = 1 cm

(A) 8 cm (B) 12 cm (C) 14 cm (D) 16 cm (E) 32 cm

- 3.** I think of a number. I add 8, then multiply the result by 2, and get 40. What was my number?
4 pts

(A) 11 (B) 12 (C) 13 (D) 20 (E) 24

- 4.** Using each of the digits 7, 0 and 5 exactly once, what is the smallest 3-digit number you can make?
4 pts

(A) 507 (B) 516 (C) 570 (D) 705 (E) 750

- 5.** A straight fence is 25 m long. There is a post every 5 m, including one at each end. How many posts are there?
5 pts

(A) 4 (B) 5 (C) 6 (D) 7 (E) 8

- 6.** Same shapes stand for the same number. What number is the circle?
5 pts

$$\square + \square + \square = 18$$

$$\square + \star = 12$$

$$\star + \bigcirc + \bigcirc = 10$$

(A) 1 (B) 2 (C) 3 (D) 4 (E) 6

Kangaroo-Style Math Practice, Grades 3-4, Set 7

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(B) \$15**

The books cost $5 \times \$7 = \35 , so the change is $\$50 - \$35 = \$15$.

2. **(C) 14 cm**

Walk around the outside: there are 14 square sides on the edge, each 1 cm long, so $14 \times 1 = 14$ cm.

3. **(B) 12**

Work backwards: $40 / 2 = 20$, then $20 - 8 = 12$.

4. **(A) 507**

A 3-digit number cannot start with 0, so start with 5, then 0, then 7: 507.

5. **(C) 6**

$25 / 5 = 5$ gaps, and there is always one more post than gaps: 6.

6. **(B) 2**

Square = $18 / 3 = 6$. Then star = $12 - 6 = 6$. Two circles = $10 - 6 = 4$, so the circle is 2.

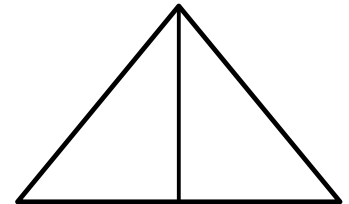
Kangaroo-Style Math Practice, Grades 3-4, Set 8

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

- 1.** How many triangles are there in this picture?

3 pts



(A) 1 (B) 2 (C) 3 (D) 4 (E) 5

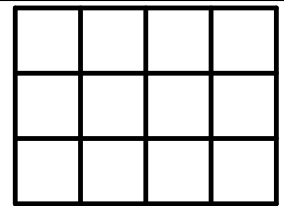
- 2.** 34 children go on a trip. Each van can take 5 children. What is the smallest number of vans they need?

3 pts

(A) 5 (B) 6 (C) 7 (D) 8 (E) 9

- 3.** How many squares of any size can you find in this picture?

4 pts



(A) 12 (B) 18 (C) 19 (D) 20 (E) 22

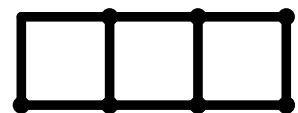
- 4.** Today is Saturday. What day of the week will it be in 12 days?

4 pts

(A) Wednesday (B) Saturday (C) Thursday (D) Sunday (E) Friday

- 5.** A row of 3 squares needs 10 matchsticks, as shown.
How many matchsticks are needed for a row of 7 squares?

5 pts



(A) 21 (B) 22 (C) 23 (D) 24 (E) 28

- 6.** A farm has only chickens and cows. Together they have 14 heads and 48 legs.
How many cows are there?

5 pts

(A) 4 (B) 9 (C) 10 (D) 11 (E) 12

Kangaroo-Style Math Practice, Grades 3-4, Set 8

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(C) 3**

Every pair of lines from the top corner makes a triangle with the bottom line: that is 3 triangles.

2. **(C) 7**

$34 \div 5 = 6$ with 4 left over, and those children need one more van: 7.

3. **(D) 20**

There are 12 small squares, and the bigger squares made of several small ones add up to 20 in all.

4. **(C) Thursday**

Every 7 days it is Saturday again. $12 = 1 \times 7 + 5$, so count 5 days on from Saturday: Thursday.

5. **(B) 22**

The first square needs 4 sticks and each new square adds 3 more: $4 + 3 \times 6 = 22$.

6. **(C) 10**

If all 14 animals were chickens there would be 28 legs. The extra 20 legs come from cows, 2 extra legs each, so there are 10 cows.

Kangaroo-Style Math Practice, Grades 5-6, Set 1

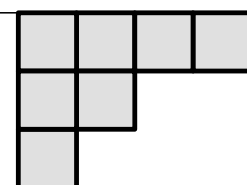
Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

- 1.** I think of a number. I add 2, then multiply the result by 3, and get 30. What was my number?
3 pts

(A) 7 (B) 8 (C) 9 (D) 10 (E) 24

- 2.** The shape is made of squares with sides of 3 cm.
3 pts What is its perimeter?



side = 3 cm

(A) 21 cm (B) 36 cm (C) 42 cm (D) 48 cm (E) 84 cm

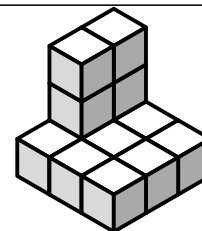
- 3.** In a chess club, 10 players each play exactly one game against every other player. How many games are played?
4 pts

(A) 44 (B) 45 (C) 50 (D) 55 (E) 90

- 4.** Today is Wednesday. What day of the week will it be in 93 days?
4 pts

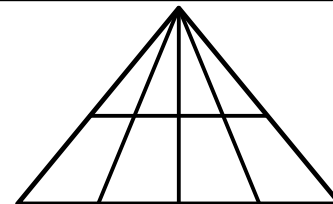
(A) Monday (B) Friday (C) Sunday (D) Thursday (E) Saturday

- 5.** This building is made of cubes. How many more cubes are needed to make a big 3 by 3 by 3 cube?
5 pts



(A) 12 (B) 13 (C) 14 (D) 17 (E) 18

- 6.** How many triangles are there in this picture?
5 pts



(A) 4 (B) 5 (C) 19 (D) 20 (E) 22

Kangaroo-Style Math Practice, Grades 5-6, Set 1

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(B) 8**

Work backwards: $30 / 3 = 10$, then $10 - 2 = 8$.

2. **(C) 42 cm**

Walk around the outside: there are 14 square sides on the edge, each 3 cm long, so $14 \times 3 = 42$ cm.

3. **(B) 45**

Each player plays 9 games, and every game has two players: $10 \times 9 / 2 = 45$ games.

4. **(B) Friday**

Every 7 days it is Wednesday again. $93 = 13 \times 7 + 2$, so count 2 days on from Wednesday: Friday.

5. **(C) 14**

The building has 13 cubes. A $3 \times 3 \times 3$ cube has 27 cubes, so $27 - 13 = 14$ more are needed.

6. **(D) 20**

Every pair of lines from the top corner makes a triangle with the bottom line: that is 10 triangles, and the same again with the middle line, so the total is doubled.

Kangaroo-Style Math Practice, Grades 5-6, Set 2

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

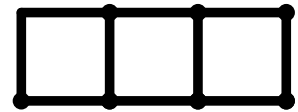
- 1.** 21 children go on a trip. Each van can take 4 children. What is the smallest number of vans they need?

3 pts

(A) 4 (B) 5 (C) 6 (D) 7 (E) 8

- 2.** A row of 3 squares needs 10 matchsticks, as shown.
How many matchsticks are needed for a row of 18 squares?

3 pts



(A) 54 (B) 55 (C) 56 (D) 60 (E) 72

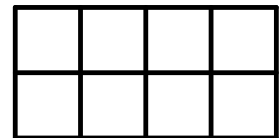
- 3.** There are 30 students in a class. Exactly $\frac{1}{3}$ of them walk to school and the rest come by bus. How many come by bus?

4 pts

(A) 10 (B) 19 (C) 20 (D) 21 (E) 22

- 4.** How many squares of any size can you find in this picture?

4 pts



(A) 8 (B) 10 (C) 11 (D) 12 (E) 13

- 5.** In a chess club, 10 players each play exactly one game against every other player. How many games are played?

5 pts

(A) 44 (B) 45 (C) 46 (D) 55 (E) 90

- 6.** A farm has only chickens and cows. Together they have 29 heads and 74 legs. How many cows are there?

5 pts

(A) 7 (B) 8 (C) 9 (D) 18 (E) 21

Kangaroo-Style Math Practice, Grades 5-6, Set 2

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(C) 6**

$21 \div 4 = 5$ with 1 left over, and those children need one more van: 6.

2. **(B) 55**

The first square needs 4 sticks and each new square adds 3 more: $4 + 3 \times 17 = 55$.

3. **(C) 20**

$\frac{1}{3}$ of 30 is $30 \div 3 \times 1 = 10$ students walking, so $30 - 10 = 20$ come by bus.

4. **(C) 11**

There are 8 small squares, and the bigger squares made of several small ones add up to 11 in all.

5. **(B) 45**

Each player plays 9 games, and every game has two players: $10 \times 9 \div 2 = 45$ games.

6. **(B) 8**

If all 29 animals were chickens there would be 58 legs. The extra 16 legs come from cows, 2 extra legs each, so there are 8 cows.

Kangaroo-Style Math Practice, Grades 5-6, Set 3

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

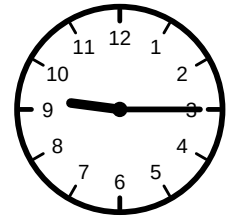
- 1.** Ruby buys 6 books that cost \$4 each and pays with a \$50 bill. How much change does Ruby get?
3 pts

(A) \$21 (B) \$24 (C) \$26 (D) \$36 (E) \$46

- 2.** I think of a number. I add 7, then multiply the result by 3, and get 39. What was my number?
3 pts

(A) 5 (B) 6 (C) 7 (D) 13 (E) 18

- 3.** A movie starts at the time shown on the clock and lasts 1 hour 35 minutes. At what time does it end?
4 pts



(A) 10:05 (B) 10:50 (C) 11:50 (D) 10:35 (E) 9:50

- 4.** What number comes next? 4, 6, 9, 13, 18, ?
4 pts

(A) 22 (B) 23 (C) 24 (D) 25 (E) 26

- 5.** Today is Wednesday. What day of the week will it be in 83 days?
5 pts

(A) Monday (B) Friday (C) Tuesday (D) Thursday (E) Wednesday

- 6.** A book has 66 pages numbered 1, 2, 3, ... up to 66. How many digits are printed in all?
5 pts

(A) 114 (B) 123 (C) 124 (D) 132 (E) 133

Kangaroo-Style Math Practice, Grades 5-6, Set 3

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(C) \$26**

The books cost $6 \times \$4 = \24 , so the change is $\$50 - \$24 = \$26$.

2. **(B) 6**

Work backwards: $39 \div 3 = 13$, then $13 - 7 = 6$.

3. **(B) 10:50**

Start at 9:15, add 1 hour and then 35 minutes to reach 10:50.

4. **(C) 24**

The gaps grow by 1 each time (2, 3, 4, ...), so the next gap is 6 and $18 + 6 = 24$.

5. **(C) Tuesday**

Every 7 days it is Wednesday again. $83 = 11 \times 7 + 6$, so count 6 days on from Wednesday: Tuesday.

6. **(B) 123**

Pages 1-9 use 9 digits, pages 10-66 use 114: 123 digits.

Kangaroo-Style Math Practice, Grades 5-6, Set 4

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

- 1.** 25 children go on a trip. Each van can take 4 children. What is the smallest number of vans they need?

3 pts

(A) 5 (B) 6 (C) 7 (D) 8 (E) 9

- 2.** Eli buys 3 books that cost \$4 each and pays with a \$50 bill. How much change does Eli get?

3 pts

(A) \$12 (B) \$33 (C) \$38 (D) \$46 (E) \$48

- 3.** Today is Wednesday. What day of the week will it be in 76 days?

4 pts

(A) Tuesday (B) Thursday (C) Monday (D) Wednesday (E) Friday

- 4.** A book has 40 pages numbered 1, 2, 3, ... up to 40. How many digits are printed in all?

4 pts

(A) 62 (B) 71 (C) 72 (D) 73 (E) 80

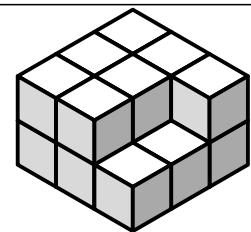
- 5.** Posts are placed every 3 m all the way around a circular pond with a 30 m long path. How many posts are there?

5 pts

(A) 9 (B) 10 (C) 11 (D) 12 (E) 30

- 6.** This building is made of cubes. How many more cubes are needed to make a big 3 by 3 by 3 cube?

5 pts



(A) 9 (B) 11 (C) 14 (D) 16 (E) 18

Kangaroo-Style Math Practice, Grades 5-6, Set 4

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(C) 7**

$25 \div 4 = 6$ with 1 left over, and those children need one more van: 7.

2. **(C) \$38**

The books cost $3 \times \$4 = \12 , so the change is $\$50 - \$12 = \$38$.

3. **(A) Tuesday**

Every 7 days it is Wednesday again. $76 = 10 \times 7 + 6$, so count 6 days on from Wednesday: Tuesday.

4. **(B) 71**

Pages 1-9 use 9 digits, pages 10-40 use 62: 71 digits.

5. **(B) 10**

Around a circle the first and last post are the same, so there are $30 \div 3 = 10$ posts.

6. **(B) 11**

The building has 16 cubes. A $3 \times 3 \times 3$ cube has 27 cubes, so $27 - 16 = 11$ more are needed.

Kangaroo-Style Math Practice, Grades 5-6, Set 5

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

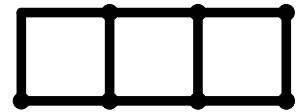
- 1.** 26 children go on a trip. Each van can take 5 children. What is the smallest number of vans they need?

3 pts

(A) 4 (B) 5 (C) 6 (D) 7 (E) 8

- 2.** A row of 3 squares needs 10 matchsticks, as shown.
How many matchsticks are needed for a row of 12 squares?

3 pts



(A) 36 (B) 37 (C) 38 (D) 40 (E) 48

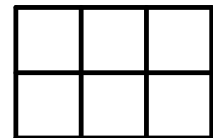
- 3.** In a chess club, 7 players each play exactly one game against every other player. How many games are played?

4 pts

(A) 20 (B) 21 (C) 22 (D) 28 (E) 42

- 4.** How many squares of any size can you find in this picture?

4 pts



(A) 6 (B) 7 (C) 8 (D) 9 (E) 10

- 5.** There are 30 students in a class. Exactly $\frac{4}{6}$ of them walk to school and the rest come by bus. How many come by bus?

5 pts

(A) 5 (B) 10 (C) 12 (D) 20 (E) 25

- 6.** A farm has only chickens and cows. Together they have 16 heads and 54 legs. How many cows are there?

5 pts

(A) 5 (B) 10 (C) 11 (D) 12 (E) 13

Kangaroo-Style Math Practice, Grades 5-6, Set 5

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(C) 6**

$26 \div 5 = 5$ with 1 left over, and those children need one more van: 6.

2. **(B) 37**

The first square needs 4 sticks and each new square adds 3 more: $4 + 3 \times 11 = 37$.

3. **(B) 21**

Each player plays 6 games, and every game has two players: $7 \times 6 \div 2 = 21$ games.

4. **(C) 8**

There are 6 small squares, and the bigger squares made of several small ones add up to 8 in all.

5. **(B) 10**

$\frac{4}{6}$ of 30 is $30 \div 6 \times 4 = 20$ students walking, so $30 - 20 = 10$ come by bus.

6. **(C) 11**

If all 16 animals were chickens there would be 32 legs. The extra 22 legs come from cows, 2 extra legs each, so there are 11 cows.

Kangaroo-Style Math Practice, Grades 5-6, Set 6

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

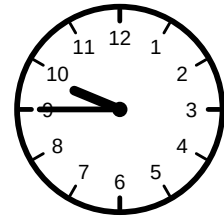
- 1.** I think of a number. I add 2, then multiply the result by 4, and get 44. What was my number?
3 pts

(A) 8 (B) 9 (C) 10 (D) 11 (E) 36

- 2.** Aria buys 6 books that cost \$4 each and pays with a \$50 bill. How much change does Aria get?
3 pts

(A) \$21 (B) \$24 (C) \$26 (D) \$36 (E) \$46

- 3.** A movie starts at the time shown on the clock and lasts 2 hours 25 minutes. At what time does it end?
4 pts



(A) 12:10 (B) 1:10 (C) 12:55 (D) 12:25 (E) 11:10

- 4.** What number comes next? 1, 4, 8, 13, 19, ?
4 pts

(A) 21 (B) 25 (C) 26 (D) 27 (E) 31

- 5.** Today is Tuesday. What day of the week will it be in 63 days?
5 pts

(A) Monday (B) Thursday (C) Wednesday (D) Friday (E) Tuesday

- 6.** A book has 102 pages numbered 1, 2, 3, ... up to 102. How many digits are printed in all?
5 pts

(A) 189 (B) 198 (C) 204 (D) 207 (E) 208

Kangaroo-Style Math Practice, Grades 5-6, Set 6

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(B) 9**

Work backwards: $44 \div 4 = 11$, then $11 - 2 = 9$.

2. **(C) \$26**

The books cost $6 \times \$4 = \24 , so the change is $\$50 - \$24 = \$26$.

3. **(A) 12:10**

Start at 9:45, add 2 hours and then 25 minutes to reach 12:10.

4. **(C) 26**

The gaps grow by 1 each time (3, 4, 5, ...), so the next gap is 7 and $19 + 7 = 26$.

5. **(E) Tuesday**

Every 7 days it is Tuesday again. $63 = 9 \times 7 + 0$, so count 0 days on from Tuesday: Tuesday.

6. **(B) 198**

Pages 1-9 use 9 digits, pages 10-99 use 180 and pages 100-102 use 9: 198 digits.

Kangaroo-Style Math Practice, Grades 5-6, Set 7

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

- 1.** 33 children go on a trip. Each van can take 5 children. What is the smallest number of vans they need?

3 pts

(A) 5 (B) 6 (C) 7 (D) 8 (E) 9

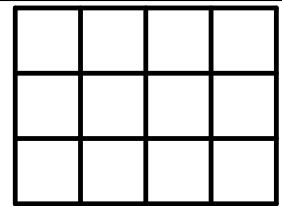
- 2.** I think of a number. I add 7, then multiply the result by 2, and get 34. What was my number?

3 pts

(A) 9 (B) 10 (C) 11 (D) 17 (E) 20

- 3.** How many squares of any size can you find in this picture?

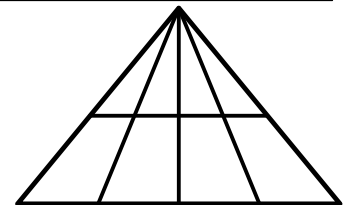
4 pts



(A) 12 (B) 18 (C) 19 (D) 20 (E) 22

- 4.** How many triangles are there in this picture?

4 pts



(A) 4 (B) 5 (C) 19 (D) 20 (E) 22

- 5.** A book has 50 pages numbered 1, 2, 3, ... up to 50. How many digits are printed in all?

5 pts

(A) 82 (B) 90 (C) 91 (D) 92 (E) 100

- 6.** Same shapes stand for the same number. What is triangle + circle?

5 pts

$$\triangle + \triangle + \bigcirc = 24$$

$$\triangle + \bigcirc + \bigcirc = 24$$

(A) 8 (B) 16 (C) 17 (D) 19 (E) 32

Kangaroo-Style Math Practice, Grades 5-6, Set 7

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(C) 7**
 $33 / 5 = 6$ with 3 left over, and those children need one more van: 7.
2. **(B) 10**
Work backwards: $34 / 2 = 17$, then $17 - 7 = 10$.
3. **(D) 20**
There are 12 small squares, and the bigger squares made of several small ones add up to 20 in all.
4. **(D) 20**
Every pair of lines from the top corner makes a triangle with the bottom line: that is 10 triangles, and the same again with the middle line, so the total is doubled.
5. **(C) 91**
Pages 1-9 use 9 digits, pages 10-50 use 82: 91 digits.
6. **(B) 16**
Adding both rows gives three triangles and three circles = 48, so one of each is $48 / 3 = 16$.

Kangaroo-Style Math Practice, Grades 5-6, Set 8

Name: _____ Date: _____

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

- 1.** 44 children go on a trip. Each van can take 6 children. What is the smallest number of vans they need?

3 pts

(A) 6 (B) 7 (C) 8 (D) 9 (E) 10

- 2.** There are 24 students in a class. Exactly $\frac{2}{4}$ of them walk to school and the rest come by bus. How many come by bus?

3 pts

(A) 6 (B) 12 (C) 13 (D) 14 (E) 18

- 3.** This row of 5 triangles uses 11 matchsticks. How many matchsticks are needed for a row of 23 triangles?

4 pts



(A) 46 (B) 47 (C) 48 (D) 50 (E) 69

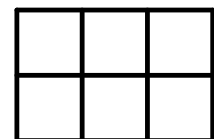
- 4.** In a chess club, 11 players each play exactly one game against every other player. How many games are played?

4 pts

(A) 54 (B) 55 (C) 56 (D) 66 (E) 110

- 5.** How many squares of any size can you find in this picture?

5 pts



(A) 6 (B) 7 (C) 8 (D) 9 (E) 10

- 6.** A farm has only chickens and cows. Together they have 25 heads and 58 legs. How many cows are there?

5 pts

(A) 3 (B) 4 (C) 5 (D) 14 (E) 21

Kangaroo-Style Math Practice, Grades 5-6, Set 8

Answer Key

Choose the correct answer (A, B, C, D or E). Problems get harder as you go: the first two are worth 3 points, the next two 4 points and the last two 5 points.

1. **(C) 8**

$44 \div 6 = 7$ with 2 left over, and those children need one more van: 8.

2. **(B) 12**

$\frac{2}{4}$ of 24 is $24 \div 4 \times 2 = 12$ students walking, so $24 - 12 = 12$ come by bus.

3. **(B) 47**

The first triangle uses 3 sticks and each new one adds 2: $3 + 2 \times 22 = 47$.

4. **(B) 55**

Each player plays 10 games, and every game has two players: $11 \times 10 \div 2 = 55$ games.

5. **(C) 8**

There are 6 small squares, and the bigger squares made of several small ones add up to 8 in all.

6. **(B) 4**

If all 25 animals were chickens there would be 50 legs. The extra 8 legs come from cows, 2 extra legs each, so there are 4 cows.