Sample Questions

S1 Which number is the smallest?
A 51
B 62
C 73
D 84

S2 What is 3 + 4?
A 5
B 6
C 7
D 8
1. Which group of figures contains only quadrilaterals?

A  

B  

C  

D
2. Which figure shows a shaded amount that is equivalent to the fraction \( \frac{2}{6} \)?

A  

B  

C  

D  

3. Which equation is true when \( r = 7 \)?

A  \( 6 = 30 \div r \)

B  \( 7 = 54 \div r \)

C  \( 7 = 49 \div r \)

D  \( 9 = 72 \div r \)
4. Vanessa spent 15 minutes in the library. She left the library at 11:30 a.m.

What letter on the number line represents the time Vanessa arrived at the library?

A. M  
B. N  
C. O  
D. P  

5. Jacquelyn’s mom drove 265 miles on Thursday and 478 miles on Friday. She has 143 miles more to drive on Saturday. **About** how many miles will she drive in all?

A. 700 
B. 800 
C. 900 
D. 1,000
What fraction of this figure is shaded?

A $\frac{1}{4}$
B $\frac{1}{5}$
C $\frac{3}{4}$
D $\frac{2}{5}$
7  This figure is 4 units long and 4 units wide.

Which measurements describe a rectangle that has the same area as the figure?
A  5 units long and 3 units wide
B  8 units long and 2 units wide
C  10 units long and 6 units wide
D  12 units long and 4 units wide

8  Each of the triangles below has three sides of equal length. In which choice does the triangle have $\frac{1}{6}$ of its area shaded?
A

B

C

D
9. There are 500 seats in a movie theater. There are 362 people sitting in the seats. How many seats are empty?
   A. 262 seats
   B. 152 seats
   C. 148 seats
   D. 138 seats

10. Which figure could be added to the diagram to make it true?
11. Sam’s goal is to walk 36 miles.

- He walks 4 miles each day.
- He has walked for 6 days.

Which equation can be used to find how many more miles, \( n \), Sam still needs to walk to reach his goal?

A. \( 3 \times 5 + n = 36 \)
B. \( 4 \times 6 + n = 36 \)
C. \( 4 \times 6 \times n = 36 \)
D. \( 9 \times 4 + n = 36 \)

12. Amy shaded some parts of this poster.

![Image of a poster with shaded parts]

What fraction of the area of the poster is shaded?

A. \( \frac{2}{3} \)
B. \( \frac{3}{8} \)
C. \( \frac{5}{3} \)
D. \( \frac{5}{8} \)
13 Eric leaves school at the time shown.

He arrives home 25 minutes later. At what time does Eric get home?

A 2:50  
B 3:15  
C 3:40  
D 4:05
14 Which number line shows point M at $\frac{3}{8}$?

A

B

C

D

15 Chantelle has 56 stickers. She will give all of the stickers to 8 friends. Each friend will receive the same number of stickers. Which equation will help Chantelle decide how many stickers, $n$, to give to each friend?

A $n \div 8 = 56$

B $8 \times n = 56$

C $56 - n = 48$

D $56 - 8 = n$
16 A farmer planted 5 different types of tomatoes. He planted 40 of each type. How many tomatoes did the farmer plant?
A 20 
B 45 
C 200 
D 250 

17 Daniel’s goal is to walk 100 miles.
- He walks 5 miles every day.
- He has walked for 7 days.
- Daniel still needs to walk $k$ more miles for his goal.

Which equation could be used to find how many more miles, $k$, Daniel will have to walk to meet his goal?
A $100 = 5 \times 7 + k$
B $100 = 5 \times 7 \times k$
C $100 = 5 \times 7 - k$
D $100 = 5 + 7 + k$

18 There were 823 people attending a baseball game after 37 people left. How many people were at the game before the people left?
A 786 
B 850 
C 860 
D 896
19. What value for $M$ makes this equation true?

\[ M \div 7 = 7 \]

A 1  
B 14  
C 42  
D 49

20. The perimeter of this pentagon is 52 cm.

What is the missing length?

A 6 cm  
B 8 cm  
C 9 cm  
D 10 cm
This is the end of the calculator inactive test questions.

Directions:

1. Look back over your answers for the calculator inactive questions. You will not be able to go back and work on these questions once you are given a calculator.

2. Raise your hand to let your teacher know you are ready to begin the calculator active test questions.

3. Do not begin work on the calculator active test questions until your teacher has given you a calculator.
21 A fraction of this circle is shaded.

Which circle has an equal fraction shaded?

A

B

C

D
22. What fraction is represented by point $L$ on this number line?

- A $\frac{1}{2}$
- B $\frac{2}{3}$
- C $\frac{2}{4}$
- D $\frac{3}{4}$

23. Carlos and his friends collected 72 rocks. Each person collected 9 rocks. How many people collected rocks?

- A 8
- B 9
- C 63
- D 81

24. Jasmine wrote 2 pages in her journal every day for 7 days. Her journal has 32 total pages. How many pages does Jasmine have left to write before her journal will be full?

- A 14 pages
- B 18 pages
- C 25 pages
- D 30 pages
25 What fraction of the area of this figure is shaded?

A \( \frac{1}{4} \)

B \( \frac{1}{6} \)

C \( \frac{1}{8} \)

D \( \frac{1}{10} \)

26 A truck rental company charges $20 per day plus a onetime fee of $40 to rent a truck. A person needs to rent a truck for 9 days. How much will the person pay to rent the truck?

A $540

B $380

C $220

D $180
27 Which circle is \( \frac{3}{4} \) shaded?

A

B

C

D
28 A third-grade class voted for their favorite subject, as shown.

**Favorite Subjects**

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Key: △ = 2 votes

How many more students voted for math than science?

A  7  
B  6  
C  4  
D  3

29 Which letter has a value of $\frac{3}{4}$ on this number line?

\[0 \quad \quad 1\]

A  W  
B  X  
C  Y  
D  Z
30 Sarah drew a shape. It was a quadrilateral, and all the sides were the same length. Which shape did Sarah draw?

A pentagon
B rhombus
C trapezoid
D triangle

31 A train makes 9 stops each day. How many days will it take for the train to make 63 stops?

A 7
B 9
C 54
D 72
Four friends were playing a game. John and Bill were on Team 1. Susie and Amy were on Team 2. They made a graph to show how many points each person scored.

How many more points did Team 2 score than Team 1?

A  5  
B  6  
C  11 
D  16
A school collects canned food for charity.

- Third-graders collected 327 cans.
- Third-graders collected 138 more cans than fourth-graders.

How many cans did the fourth grade collect?

A 289  
B 211  
C 189  
D 111
34. Which expression can be used to find the missing number in this multiplication table?

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A. $63 + 9$
B. $45 - 9$
C. $63 - 15$
D. $45 + 9$
35 Donna shaded this rectangle.

Michael’s rectangle is the same size. He shaded less than Donna. Which choice could be the shaded fraction of Michael’s rectangle?

A $\frac{1}{3}$
B $\frac{2}{3}$
C $\frac{3}{3}$
D $\frac{4}{3}$

36 Ellen is comparing two rectangles.
- Rectangle $P$ is 5 inches long and 1 inch wide.
- Rectangle $Q$ is 4 inches long and 2 inches wide.

Which statement correctly compares the areas and perimeters of the rectangles?
A The rectangles have equal areas, and rectangle $P$ has a greater perimeter.
B The rectangles have equal areas, and rectangle $Q$ has a greater perimeter.
C The rectangles have equal perimeters, and rectangle $P$ has a greater area.
D The rectangles have equal perimeters, and rectangle $Q$ has a greater area.
37 Lacey has a bookcase with 6 shelves.
   • She used only 4 of the shelves.
   • She put 6 books on each shelf.

Which choice shows another way Lacey could put the same number of books in the bookcase, but this time, using all of the shelves?

A 2 books on each shelf
B 4 books on each shelf
C 10 books on each shelf
D 24 books on each shelf

38 This shows a pencil and a ruler.

![Ruler with measurements](image)

What is the length of the pencil?

A $5 \frac{1}{2}$ inches
B 6 inches
C $6 \frac{1}{4}$ inches
D $6 \frac{1}{2}$ inches
39  Tanya baked 125 cookies for a bake sale. Mark baked 67 fewer cookies than Tanya. How many cookies did they bake in all?

A  183  
B  192  
C  250  
D  267  

40  Which answer choice shows two correct ways to arrange 21 pennies in equal rows?

A  2 rows of 1, or 1 row of 2  
B  7 rows of 3, or 3 rows of 7  
C  8 rows of 3, or 3 rows of 8  
D  20 rows of 1, or 1 row of 20
Directions:

This is the end of the mathematics test.

1. Put all of your papers inside your test book and close your test book.

2. Place your calculator on top of the test book.

3. Stay quietly in your seat until your teacher tells you that testing is finished.
Grade 3 Mathematics—RELEASED

Grade 3 Mathematics
RELEASED Form
2018–2019
Answer Key

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Calculator Inactive

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### Grade 3 Mathematics — Released

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**Calculator Active**

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*DOK:
1 = Recall
2 = Skill/Concept
3 = Strategic Thinking

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