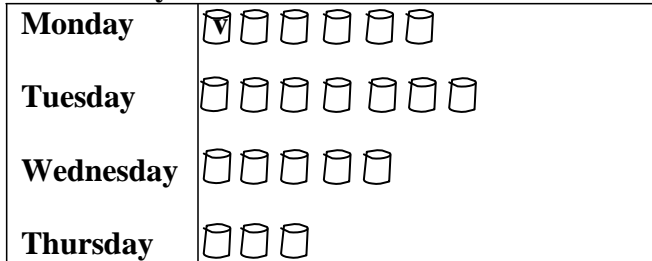


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THIRD GRADE MATHEMATICS

Use this pictograph to answer question 1.

**Number of Cans Collected
By Students in Third Grade**



Each  represents 5 cans.

1. Third grade students at Highview Elementary are collecting cans to recycle. How many cans did they collect on Tuesday and Wednesday?

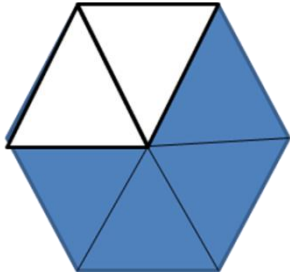
- A. 12 cans
- B. 60 cans
- C. 20 cans
- D. 65 cans

2. The Heath family is driving from Saint Paul, Minnesota to Bismarck, North Dakota. The distance is 502 miles. They drove 235 miles before lunch. After lunch they drove 150 miles and stopped for a rest. How many more miles will they have to drive before they reach Bismarck? (no calculator)

- A. 352 miles
- B. 267 miles
- C. 117 miles
- D. 385 miles

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Use the figure below to answer question 3.



3. If $\frac{2}{6}$ of this hexagon is not shaded, what fraction represents the remaining shaded parts?

- A. $\frac{2}{6}$
- B. $\frac{1}{2}$
- C. $\frac{1}{6}$
- D. $\frac{4}{6}$

Use these numbers to answer question 4.

9369 9639 9963 9063

4. Which answer shows these numbers from least to greatest?

- A. 9369, 9063, 9963, 9639
- B. 9063, 9369, 9639, 9963
- C. 9063, 9963, 9639, 9369
- D. 9963, 9639, 9369, 9063

THIRD GRADE MATHEMATICS

5. Find the result of $8051 - 2394$.

(no calculator)

- A. 5,657
- B. 6,343
- C. 6,757
- D. 10,445

6. Which set of fractions is in order from least to greatest?

- A. $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{8}$
- B. $\frac{1}{3}, \frac{1}{2}, \frac{1}{6}, \frac{1}{4}$
- C. $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{6}$
- D. $\frac{1}{6}, \frac{1}{4}, \frac{1}{3}, \frac{1}{2}$

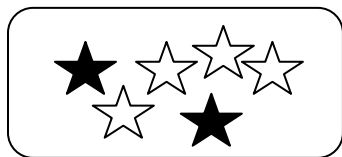
7. Estimate the sum of $4,806 + 13,095$ rounded to the nearest thousand.

(no calculator)

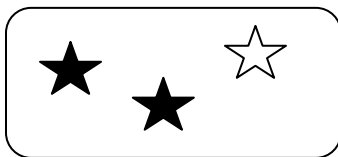
- A. 13,000
- B. 15,000
- C. 18,000
- D. 20,000

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Use this diagram to answer question 8.



Mary's stickers



Kelsey's stickers

8. Mary's and Kelsey's sticker collection is represented above. Mary has 2 dark stickers and 4 white stickers. Kelsey has 2 dark stickers and 1 white sticker. Who has a greater fraction of dark stickers?

- A. Kelsey, because $\frac{2}{3}$ is greater than $\frac{2}{6}$.
- B. Mary, because $\frac{2}{6}$ is greater than $\frac{2}{3}$.
- C. Mary, because 6 is greater than 3.
- D. They both have the same fraction of shaded stars.

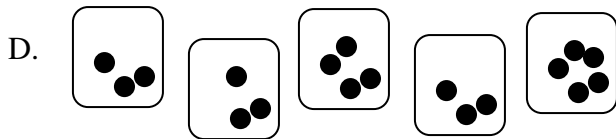
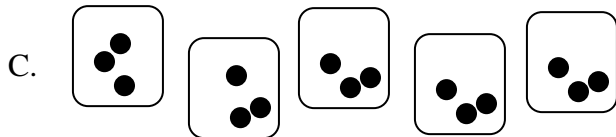
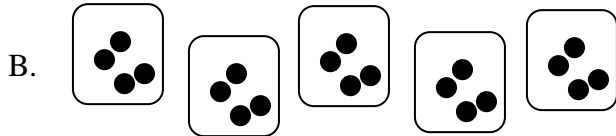
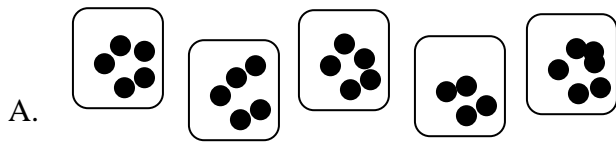
9. Julie read the first 123 pages of a book last week. She read 78 pages this week. If there are 314 pages total, how many pages will she have to read next week to finish the book?

(no calculator)

- A. 113 pages
- B. 201 pages
- C. 437 pages
- D. 515 pages

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THIRD GRADE MATHEMATICS

10. Which model shows $20 \div 5$?

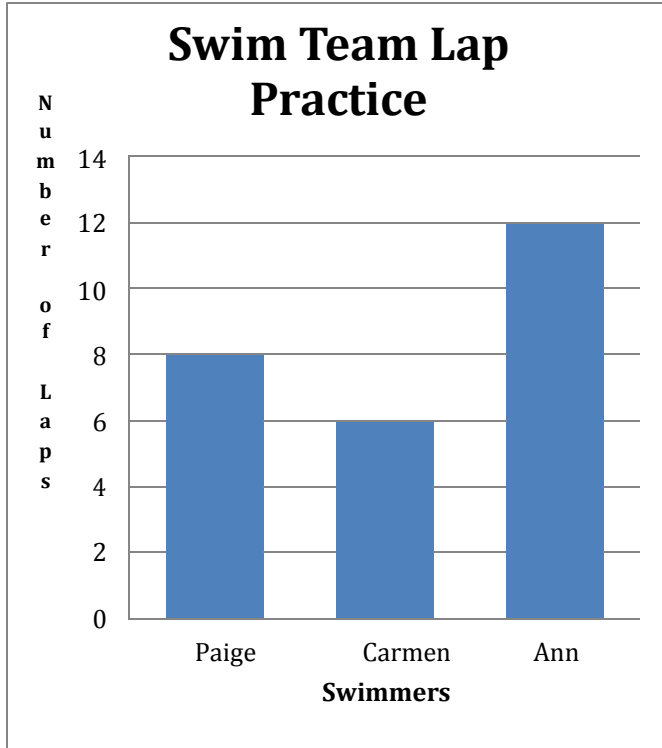


11. Attendance at the football game last night was 42,172. A week ago, the attendance was 10,000 less. How many people attended the football game last week?

- A. 42,272
- B. 41,172
- C. 43,172
- D. 32,172

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Use the following graph to answer question 12.



12. Paige, Carmen and Ann are members of the school's swim team. Which table represents the data on the bar graph?

A.

Swimmer	Laps
Carmen	6
Ann	8
Paige	12

B.

Swimmer	Laps
Paige	6
Carmen	8
Ann	12

C.

Swimmer	Laps
Ann	6
Carmen	8
Paige	12

D.

Swimmer	Laps
Paige	8
Carmen	6
Ann	12

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13. Find the answer to the expression:

$$(32 + 25) + 25$$

- A. 82
- B. 57
- C. 50
- D. 32

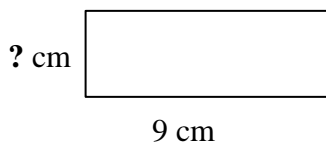
Use this equation to answer question 14.

$$45 - 3 = 6 \times \underline{\quad}$$

14. What number makes this equation true?

- A. 3
- B. 6
- C. 7
- D. 8

Use the rectangle below to answer question 15.



15. If the perimeter of this polygon is 32 cm, what is the missing measurement from this rectangle?

(no calculator)

- A. 23 cm
- B. 14 cm
- C. 7 cm
- D. 4 cm

16. Twenty-five people are traveling to a camp ground for the weekend. If each van will hold 5 people, how many vans are needed?

(no calculator)

- A. 5 vans
- B. 10 vans
- C. 15 vans
- D. 20 vans

THIRD GRADE MATHEMATICS

Use the chart below to answer question 17.

Month	Number of Books
January	6
February	9
March	12
April	
May	
June	

17. Sal wants to have a larger book collection by June. Every month until then Sal is going to get more books. If he continues this pattern how many books will Sal have in April, May and June?

- A. 14, 16, 18
- B. 15, 17, 19
- C. 15, 18, 21
- D. 16, 19, 22

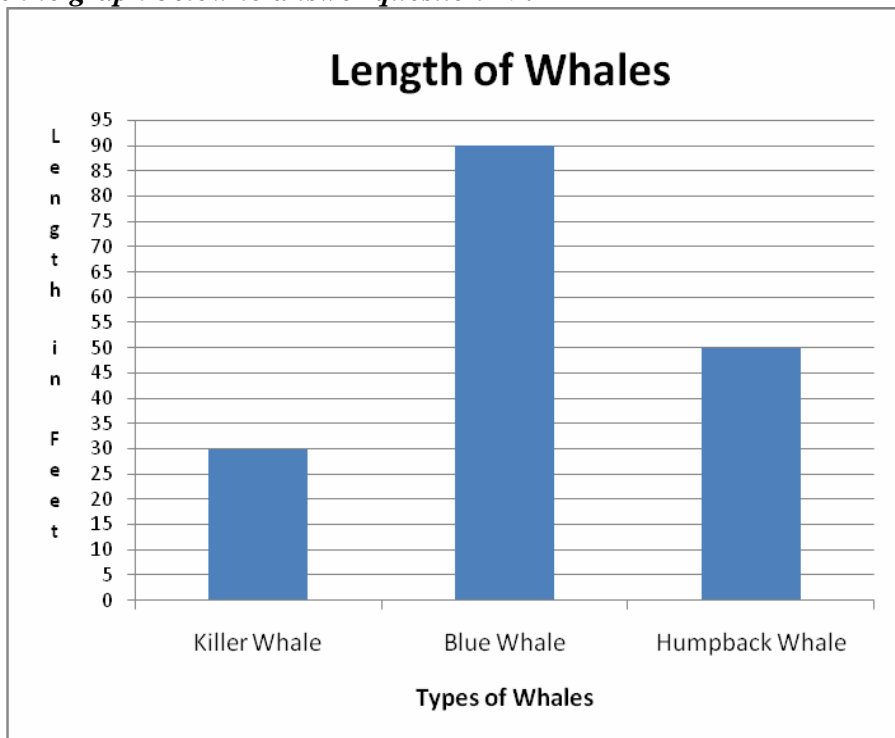
18. Luke spent \$4.13 at the store. He gave the cashier \$5.00. He receives the fewest coins possible in change. What change does Luke receive?

(no calculator)

- A. 8 dimes and 7 pennies
- B. 1 dime and 3 pennies
- C. 3 quarters, 1 dime, and 2 pennies
- D. 2 quarters, 3 dimes, 1 nickel, and 2 pennies

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Use the graph below to answer question 19.



19. How much longer is the blue whale than the humpback whale?

- A. 45 feet
- B. 60 feet
- C. 40 feet
- D. 35 feet

20. Evan rides his scooter 4 miles. He rides from 10:15 AM until 10:50 AM. How long does it take him to ride 4 miles?

- A. 25 minutes
- B. 40 minutes
- C. 30 minutes
- D. 35 minutes

21. There were 144 cartons of milk delivered to school. 84 of the cartons were white milk. The rest were chocolate milk. How many cartons of chocolate milk were delivered?

(no calculator)

- A. 60 cartons
- B. 84 cartons
- C. 144 cartons
- D. 228 cartons

THIRD GRADE MATHEMATICS

22. Grace, Shea and William are sharing 18 pieces of candy equally. How many pieces of candy does each one get?

(no calculator)

- A. 6 pieces of candy
- B. 21 pieces of candy
- C. 36 pieces of candy
- D. 9 pieces of candy

23. What place value does the 3 represent in 93,056?

- A. Tens
- B. Hundreds
- C. Thousands
- D. Ten thousands

24. The Viking's football game lasted 3 hours and 15 minutes. How many minutes did the game last?

- A. 315 minutes
- B. 195 minutes
- C. 75 minutes
- D. 60 minutes

25. Which shape has the most vertices (corners)?

- A. Pentagon
- B. Trapezoid
- C. Hexagon
- D. Octagon

26. Fifty-three people were standing in line at 9:00 AM. 97 people were standing in line at 10:00 AM. How many more people were standing in line at 10:00 AM?

(no calculator)

- A. 107 people
- B. 63 people
- C. 150 people
- D. 44 people

THIRD GRADE MATHEMATICS

27. Which word problem can be solved using the number sentence $5 \times m = 30$?

- A. Gerry had 5 books. He received m books for his birthday. How many books does Gerry have now?
- B. Brenda has 5 boxes of stickers. She has m stickers in each box. If she has a total of 30 stickers, how many stickers are in each box?
- C. Maria has 30 brownies. She gave five of her friends one brownie each. How many brownies does she have left?
- D. Abdul has 30 seeds to plant. If he puts 5 in each row, how many rows of seeds will Abdul have?

Use the following figures to answer question 28.

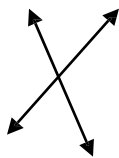


Diagram A

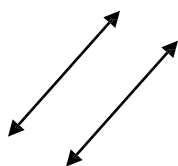


Diagram B

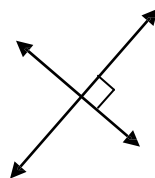


Diagram C

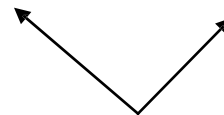


Diagram D

28. Which diagram shows perpendicular lines?

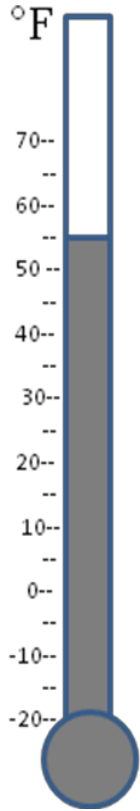
- A. Diagram A
- B. Diagram B
- C. Diagram C
- D. Diagram D

29. The Amazon River in Brazil is 6,305 kilometers long. What is another way to write 6,305?

- A. $6000 + 300 + 50$
- B. $6000 + 300 + 10 + 5$
- C. $6000 + 300 + 5$
- D. $6000 + 30 + 5$

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Use the thermometer to answer question 30.



30. What is the temperature shown on this thermometer?

- A. 50°
- B. 55°
- C. 45°
- D. 60°

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THIRD GRADE MATHEMATICS

Use the figure below to answer question 31.



31. What fraction of the set is represented by the black stars?

- A. $\frac{3}{8}$
- B. $\frac{3}{5}$
- C. $\frac{2}{3}$
- D. $\frac{1}{3}$

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THIRD GRADE MATHEMATICS

ANSWERS

1. **B 3.4.1.1** Data Analysis (interpret data)
2. **C 3.1.2.2** Number & Operation (real-world addition and subtraction problems)
3. **D 3.1.3.1** Number & Operation (read, write, and recognize fractions)
4. **B 3.1.1.5** Number & Operation (compare and order whole numbers)
5. **A 3.1.2.1** Number & Operation (add and subtract multi-digit numbers)
6. **D 3.1.3.3** Number & Operation (order and compare unit fractions)
7. **C 3.1.1.4** Number & Operation (round numbers to estimate sums and differences)
8. **A 3.1.3.2** Number & Operation (understand the size of a fractional part is relative to the size of the whole)
9. **A 3.1.2.2** Number & Operation (real-world addition and subtraction)
10. **B 3.1.2.3** Number & Operation (represent the relationship of multiplication and division)
11. **D 3.1.1.3** Number & Operation (find 100, 1000, or 10,000 more or less than a four- or five digit-number)
12. **D 3.4.1.1** Data Analysis (interpret data)
13. **A 3.1.2.5** Number & Operation (use properties of addition and multiplication)
14. **C 3.2.2.2** Number & Operation (find values of the unknowns)
15. **C 3.3.2.2** Geometry & Measurement (find the perimeter of a polygon)
16. **A 3.1.2.4** Number & Operation (multiplication and division, equal groups)
17. **C 3.2.1.1** Algebra (create input-output rules)
18. **C 3.3.3.3** Geometry & Measurement (make change in a variety of ways including fewest coins)
19. **C 3.4.1.1** Data Analysis (read and interpret data from graphs and charts)
20. **D 3.3.3.1** Geometry & Measurement (tell time to the minute and determine elapsed time)

THIRD GRADE MATHEMATICS

21. **A 3.1.2.2** Number & Operation (addition and subtraction real-world problems)
22. **A 3.1.2.4** Number & Operation (multiplication and division real-world problems)
23. **C 3.1.1.2** Number & Operation (place value to describe whole numbers)
24. **B 3.3.3.2** Geometry & Measurement (relationships among units of time)
25. **D 3.3.1.2** Geometry & Measurement (number of sides and vertices)
26. **D 3.1.2.2** Number & Operation (use addition and subtraction to solve real world problems)
27. **B 3.2.2.1** Algebra (interpret number sentences in real-world situations)
28. **C 3.3.1.1** Geometry & Measurement (identify perpendicular lines)
29. **C 3.1.1.2** Number & Operation (expanded form to describe whole numbers)
30. **B 3.3.3.4** Geometry & Measurement (analog temperature to the nearest degree)
31. **A 3.1.3.1** Number & Operation (represent fractions as parts of a set with words and symbols)