

Smart Prep TM Misconception & Distractor Testing

1. Larry has written $\frac{6}{10}$ of his book report. Which decimal represents the part of the book report he has written?

A. 6.1
B. 6.01
C. 0.6
D. 0.06
2. The stem and leaf plot shows the scores given to the dogs at a dog show. Possible scores were between 0.1 and 5.0.

Dog Show Scores

Stem	Leaf
0	8
1	2 5
2	2 4 8
3	0 3 3 6 8
4	0 5 5

1|5 means a score of 1.5.

What is the difference between the highest score and the lowest score shown in the stem and leaf plot?

- A. 4.3
- B. 3.7
- C. 0.25
- D. 0.47

3. Quinlyn described a number using these clues.

- The value of the digit 7 is (7×10) .
- The value of the digit 3 is $(3 \times 1,000)$.
- The value of the digit 1 is (1×100) .

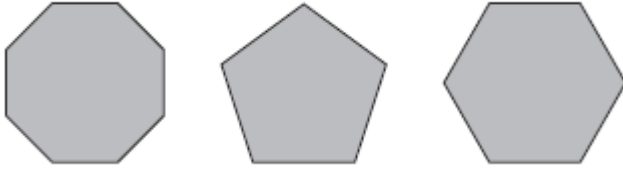
Which number could fit Quinlyn's description?

- A. 3,175.02
- B. 93,075.01
- C. 3,651.70
- D. 9,372.01

4. There are 27 teams in a hockey league. There are 16 players on each team.
How many players are in the hockey league?

- A. 162
- B. 189
- C. 432
- D. Not Here

5. Ruth sorted polygons into groups. The polygons shown belong in the same group.



Which description best represents this group?

- A. Polygons with perpendicular and parallel lines
 - B. Polygons with perpendicular lines only
 - C. Polygons with acute and obtuse angles
 - D. Polygons with obtuse angles only
6. On Monday, Pete and Ted completed a total of of $\frac{7}{10}$ their group project. Pete completed $\frac{3}{10}$ of the project.



What fraction of the group project did Ted complete on Monday?

- A. $\frac{4}{10}$
- B. $\frac{4}{7}$
- C. $\frac{7}{10}$
- D. $\frac{3}{4}$

7. Scott traveled 557 miles to visit his cousin. What is this number rounded to the nearest ten?

- A. 560
- B. 500
- C. 550
- D. Not Here

8. Bonnie has a rectangular picture of her dog. Use the ruler provided to measure the length and width of the picture to the nearest inch.



Which measurement is closest to the area of the picture in square inches?

- A. 15 square inches
- B. 96 square inches
- C. 24 square inches
- D. 16 square inches

9. The rule $+38$ is used to show the relationship between the position of a number in a pattern and the value of that number. Which table shows this relationship?

A.

Position	Expression	Value
38	$38 + 1$	39
38	$38 + 2$	40
38	$38 + 3$	41
38	$38 + 4$	42

C.

Position	Expression	Value
1	$1 + 37$	38
2	$2 + 36$	38
3	$3 + 35$	38
4	$4 + 34$	38

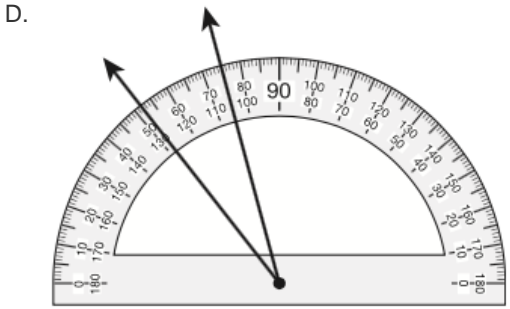
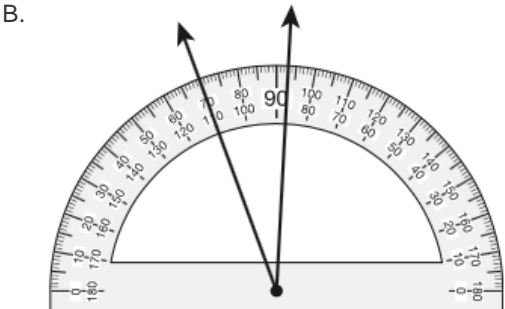
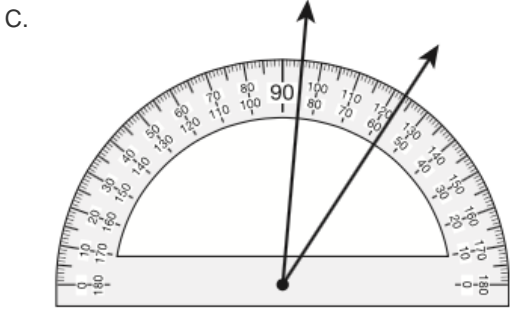
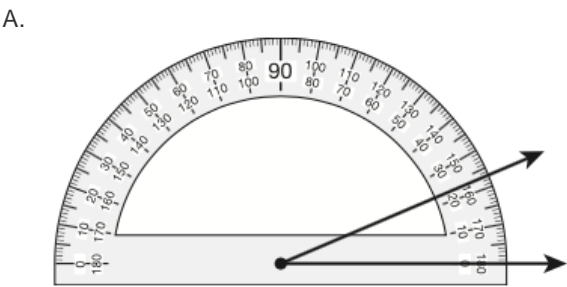
B.

Position	Expression	Value
38	38×1	38
38	$38 + 0$	38
38	$38 \div 1$	38
38	$38 - 0$	38

D.

Position	Expression	Value
1	$1 + 38$	39
2	$2 + 38$	40
3	$3 + 38$	41
4	$4 + 38$	42

10. Which angle does NOT appear to have a measure of 23° ?



11. It took Ian three years to collect 25,413 aluminum cans to recycle. In the first year he collected 8,917 cans, and in the second year he collected 7,639 cans.

Which equation can be used to find x , the number of cans Ian collected in the third year?

- A. $x = 25,413 - 8,917 - 7,639$
- B. $x = 25,413 + 8,917 + 7,639$
- C. $x = 8,917 + 7,639$
- D. $x = 8,917 - 7,639$
12. On which number line does point Q best represent a distance of 2.98 units from zero?



13. Zoey sold snacks at a neighborhood pool. The cost of preparing the snacks was \$10.29. The money she received from the sale of the snacks was \$21.75.

What was Zoey's profit?

- A. \$32.04
- B. \$21.75
- C. \$11.46
- D. \$10.29

14. Trevor jogged the following fractions of a mile last week.

- Monday: $\frac{3}{4}$ mile
- Tuesday: $\frac{5}{10}$ mile
- Friday: $\frac{4}{5}$ mile

Which comparison of these fractions of a mile is true?

A. $\frac{4}{5} < \frac{5}{10}$

C. $\frac{3}{4} < \frac{5}{10}$

B. $\frac{4}{5} < \frac{3}{4}$

D. $\frac{3}{4} < \frac{4}{5}$

15. Mr. Yates walks around the perimeter of a square playground every day for exercise. Each side of the playground is 29 yards long.

What is the perimeter of the playground in yards?

A. 841

B. 96

C. 116

D. Not Here

16. The coaches at Xavier Elementary School bought cases of sports drinks for a field day. They bought 76 cases of drinks. Each case contained 24 drinks. All the drinks were given out to students. Each student received 3 sports drinks. How many students received sports drinks?

A. 5,472

B. 300

C. 1,824

D. 608

17. Lana drew these figures.

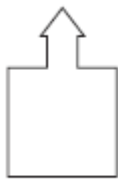


Figure L

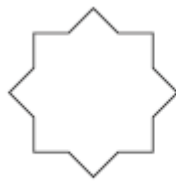


Figure M

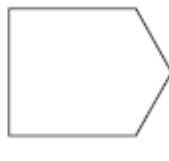


Figure N



Figure P

Which of these figures appear to have both a horizontal line of symmetry and a vertical line of symmetry?

- A. Figure M only
 - B. Figure L and Figure N
 - C. Figure M and Figure P only
 - D. Figure L, Figure M, and Figure P
18. Mrs. Owen ordered two foot-long sandwiches for her three children to share. The picture shows the two sandwiches cut in half. Each child ate half a sandwich.



Which fraction represents the number of sandwiches the children ate?

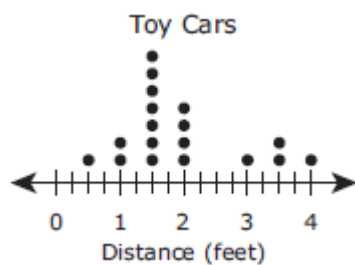
- | | |
|------------------|------------------|
| A. $\frac{3}{2}$ | C. $\frac{4}{2}$ |
| B. $\frac{2}{3}$ | D. $\frac{3}{6}$ |

19. Students pushed toy cars to see how far they would roll. The table shows the number of cars that rolled different distances.

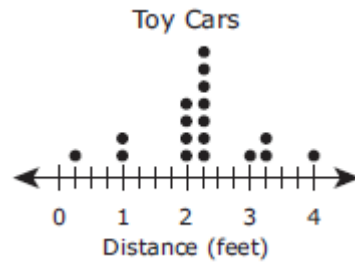
Toy Cars								
Distance (feet)	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Number of Cars	1	2	0	4	7	1	2	1

Which dot plot represents the data in the table?

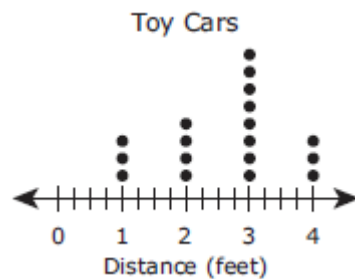
A.



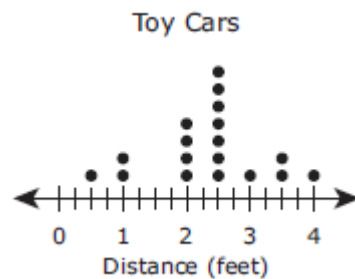
C.



B.



D.



20. Landry drew a flag with exactly one pair of perpendicular sides. Which of these could be the shape of the flag?

- A. Right triangle
- B. Acute triangle
- C. Rectangle
- D. Square

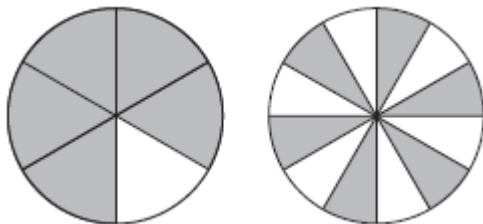
21. Kristine has a \$10 bill to spend at a book fair. She buys one book for \$4.95, two bookmarks for \$0.65 each, and a key chain for \$1.85.
How much change should Kristine receive from her \$10 bill?

A. \$2.55
B. \$2.10
C. \$3.45
D. \$1.90

22. A dictionary has a mass of about 2.5 kg. Which object has a mass closest to the mass of a dictionary?

A. Bicycle
B. Pair of boots
C. Refrigerator
D. Bag of chips

23. The models are shaded to represent two fractions.



Which statement correctly compares these two fractions?

- A. $\frac{5}{6} > \frac{6}{12}$
B. $\frac{5}{6} = \frac{6}{12}$
C. $\frac{5}{6} < \frac{6}{12}$
D. None of These

24. The table shows the number of cartons of milk the school cafeteria sold each day last week.

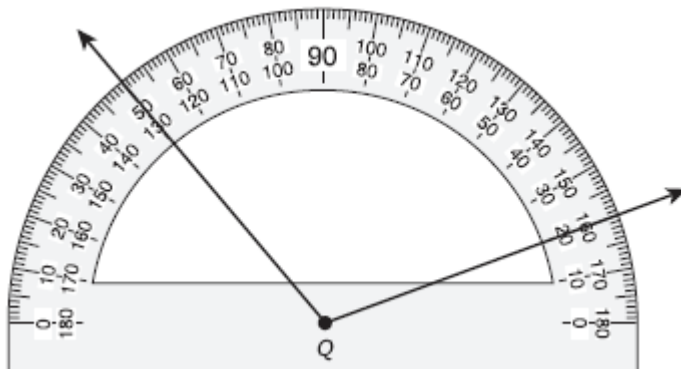
Milk

Day	Number of Cartons Sold
Monday	352
Tuesday	426
Wednesday	449
Thursday	373
Friday	402

Which of these is the best estimate of the number of cartons of milk the cafeteria sold last week?

- A. 400
- B. 1,800
- C. 2,000
- D. 2,500

25. Angle Q is shown on this protractor.



What is the measure of angle Q to the nearest degree?

- A. 70° , because 50° plus 20° equals 70°
 - B. 150° , because 130° plus 20° equals 150°
 - C. 30° , because 160° minus 130° equals 30°
 - D. 110° , because 160° minus 50° equals 110°
26. Mr. Evans will deliver a total of 168 cases of soda to 7 different grocery stores today. He will deliver the same number of cases to each store. How many cases of soda will Mr. Evans deliver to each store?
- A. 28
 - B. 24
 - C. 32
 - D. Not Here

27. 27 The number 47.06 can be expressed as —

- A. $(4 \times 10) + (7 \times 1) + (6 \times 0.01)$
- B. $(4 \times 10) + (7 \times 1) + (6 \times 0.1)$
- C. $(4 \times 1) + (7 \times 1) + (0 \times 1) + (6 \times 1)$
- D. $(4 \times 10) + (7 \times 1) + (0 \times 10) + (6 \times 100)$

28. Valerie had a jug that contained 128 fl oz of salsa to put into bowls at a restaurant. She filled each bowl with 6 fl oz of salsa until there was not enough salsa left in the jug to completely fill another bowl.

How many fluid ounces of salsa were left in the jug?

- A. 22 fl oz
- B. 21 fl oz
- C. 122 fl oz
- D. 2 fl oz

29. Lela made a triangle that had one 90 degree angle and 2 acute angles. Which term describes Lela's triangle?

- A. Right triangle, because there is one 90 degree angle
- B. Acute triangle, because there are two acute angles
- C. Obtuse triangle, because the largest angle is obtuse
- D. Right triangle, because all three angles are 90 degrees

30. The weights of four hippos at a zoo are listed.

- Hippo W: 3,894 lb

- Hippo X: 3,648 lb

- Hippo Y: 3,699 lb

- Hippo Z: 3,806 lb

If the hippos are listed in order from least weight to greatest weight, which hippo would come third in the list?

A. Hippo W, because $3,806 < 3,648 < 3,894 < 3,699$

B. Hippo X, because $3,806 < 3,894 < 3,648 < 3,699$

C. Hippo Y, because $3,894 < 3,648 < 3,699 < 3,806$

D. Hippo Z, because $3,648 < 3,699 < 3,806 < 3,894$

31. The table shows the total numbers of runs different baseball teams scored in one season.

Baseball Runs Scored

Team	Total Number of Runs Scored
R	61
S	92
T	100
U	65
V	72
W	64
X	84

Which stem and leaf plot displays these data?

- A. Baseball Runs Scored

Stem	Leaf
6	1
9	2
10	0
6	5
7	2
6	4
8	4

6|1 means 61 runs.

- C. Baseball Runs Scored

Stem	Leaf
6	1 4 5
7	2
8	4
9	2
10	

6|1 means 61 runs.

- B. Baseball Runs Scored

Stem	Leaf
6	1 4 5
7	2
8	4
9	2
10	0

6|1 means 61 runs.

- D. Baseball Runs Scored

Stem	Leaf
6	1
6	5
6	4
7	2
8	4
9	2
10	0

6|1 means 61 runs.

32. In science class Douglas measured the mass of a rock in kilograms. The mass of the rock was 0.26 kg. Which fraction is equivalent to this number?

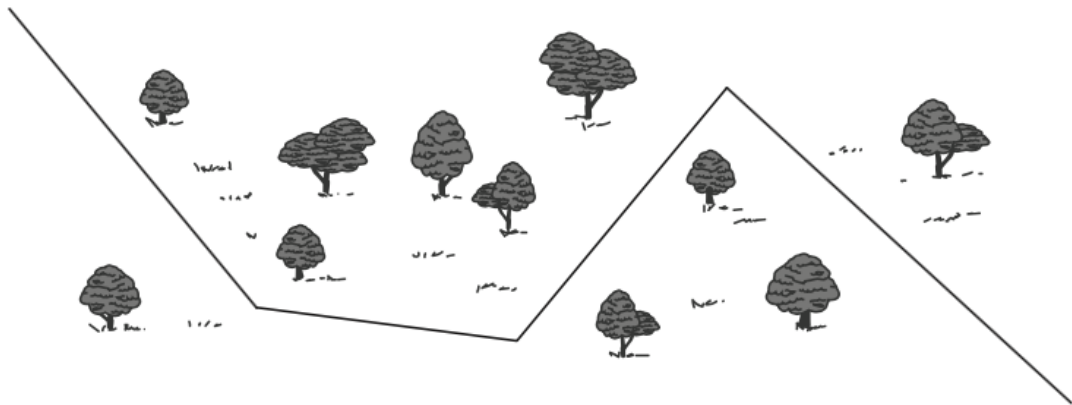
A. $\frac{26}{100}$

C. $2\frac{6}{100}$

B. $\frac{26}{10}$

D. $2\frac{1}{6}$

33. In the diagram below, the line segments represent four parts of a walking trail in a park. Use a ruler to measure the length of each line segment to the nearest centimeter.



Which measurement is closest to the total length in centimeters of the walking trail shown in the diagram?

A. 9 cm

B. 26 cm

C. 22 cm

D. 18 cm

34. Ms. Gonzales packs 45 boxes with limes. Each box holds 100 limes. How many limes can Ms. Gonzales pack into these boxes?
- A. 4,005
 - B. 450
 - C. 145
 - D. 4,500

Teacher Answer Key

Question	Objective	Answer
1	4.2G - Readiness - Math	C
2	4.9B - Supporting - Math	B
3	4.2B - Readiness - Math	A
4	4.4D - Supporting - Math	C
5	4.6D - Readiness - Math	D
6	4.3E - Readiness - Math	A
7	4.2D - Supporting - Math	A
8	4.5D - Readiness - Math	A
9	4.5B - Readiness - Math	D
10	4.7C - Readiness - Math	C
11	4.5A - Readiness - Math	A
12	4.3G - Supporting - Math	D
13	4.10B - Supporting - Math	C
14	4.3D - Readiness - Math	D
15	4.5D - Readiness - Math	C
16	4.4H - Readiness - Math	D
17	4.6B - Supporting - Math	C
18	4.3E - Readiness - Math	A
19	4.9A - Readiness - Math	D
20	4.6D - Readiness - Math	A
21	4.4A - Readiness - Math	D
22	4.8A - Supporting - Math	B
23	4.3D - Readiness - Math	A
24	4.4G - Supporting - Math	C
25	4.7C - Readiness - Math	D
26	4.4F - Supporting - Math	B
27	4.2B - Readiness - Math	A
28	4.4H - Readiness - Math	D
29	4.6C - Supporting - Math	A
30	4.2C - Supporting - Math	D

Question	Objective	Answer
31	4.9A - Readiness - Math	B
32	4.2G - Readiness - Math	A
33	4.8C - Readiness - Math	C
34	4.4B - Supporting - Math	D