

Place Values, Comparison & Estimation

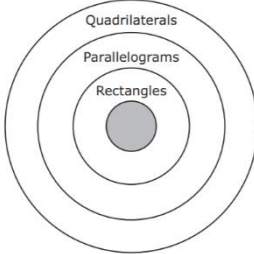
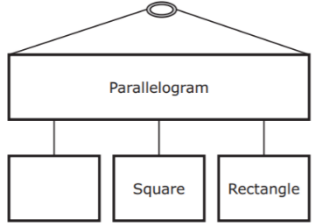
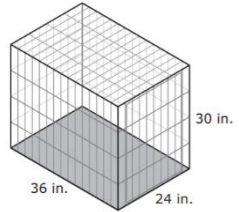
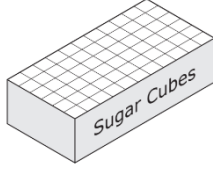
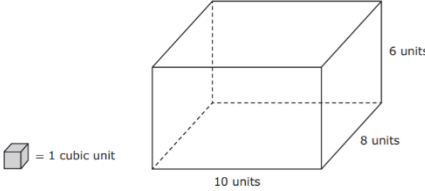
<p>2. A scientist compared these two measurements. 13.068 kg <input type="checkbox"/> 13.608 kg Which symbol makes this comparison true? F > G < H = J +</p>	<p>18. Mr. Ávalos has 9.375 liters of paint. What is this number rounded to the nearest hundredth? F 9.40 G 9.38 H 9.37 J 9.47</p>
<p>25. Which list shows the numbers NOT in order from least to greatest? A 4.036 < 4.08 < 4.2 < 4.201 B 3.09 < 3.1 < 3.607 < 3.9 C 6.4 < 6.51 < 6.387 < 6.995 D 7.315 < 7.38 < 7.406 < 7.5</p>	<p>31. The list shows the length of a day on two different planets. • Neptune: 16.11 hours • Venus: 5,832.40 hours Which statement is best supported by this information? A A day on Venus is about 40 times as long as a day on Neptune. B A day on Venus is about 400 times as long as a day on Neptune. C A day on Venus is about 50 times as long as a day on Neptune. D A day on Venus is about 500 times as long as a day on Neptune.</p>

Basic Operations

<p>12. Aspen added 14 to the product of 224 and 16. What is this sum? F 3,478 G 3,598 H 3,808 J 3,584</p>	<p>14. Theo earned \$500 selling food at a carnival. He earned \$260 selling nachos and the rest selling hot dogs for \$2 each. Theo used this equation to find h, the number of hot dogs he sold at the carnival. $h = (500-260) \div 2$ How many hot dogs did Theo sell at the carnival? F 380 G 180 H 370 J 120</p>									
<p>1. Amber saved a total of \$3.20 over 5 weeks. She saved the same amount of money each week. How much money did Amber save each week? A \$1.44 B \$1.56 C \$0.64 D \$1.80</p>	<p>17. Mia's dog weighs 32.6 pounds. Lettie's dog weighs 3.8 times as much as Mia's dog. What does Lettie's dog weigh in pounds? A 36.40 lb B 12.388 lb C 96.48 lb D 123.88 lb</p>									
<p>8. The math team does practice drills that each last $\frac{1}{6}$ hour. In February the team did practice drills for a total of 24 hours. How many practice drills did the math team do in February? F 4 G 144 H 30 J 240</p>	<p>29. Ms. Olsen has $\frac{1}{8}$ acre of land divided into 6 equal parts. What is the size of each part? A $\frac{1}{8}$ acre C $\frac{3}{4}$ acre B $\frac{1}{14}$ acre D $\frac{1}{48}$ acre</p>									
<p>4. The shaded part of the model represents a fraction. Another fraction was subtracted from the first fraction. Which expression does the model represent? F $\frac{11}{15} - \frac{1}{6}$ G $\frac{11}{12} - \frac{6}{12}$ H $\frac{6}{15} - \frac{4}{15}$ J $\frac{11}{15} - \frac{2}{5}$</p>	<p>21. A park bench is located $16\frac{3}{4}$ feet due north of an elm tree. A fountain is located $9\frac{1}{2}$ feet due south of the same elm tree. What is the distance in feet between the park bench and the fountain? A $26\frac{1}{4}$ ft B $25\frac{1}{4}$ ft C $25\frac{2}{3}$ ft D 26 ft</p>									
<p>10. The table shows the heights and masses of a male gorilla and a female gorilla at a zoo. Based on the table, which statement is true? F The combined mass of the male gorilla and the female gorilla is 253.782 kg. G The mass of the male gorilla is 63.507 kg greater than the mass of the female gorilla. H The female gorilla is 1.28 m shorter than the male gorilla. J The combined height of the male gorilla and the female gorilla is 2.028 m.</p> <table border="1" style="float: right; margin-left: auto;"> <caption>Gorillas</caption> <thead> <tr> <th></th> <th>Height (m)</th> <th>Mass (kg)</th> </tr> </thead> <tbody> <tr> <td>Male</td> <td>1.68</td> <td>158.757</td> </tr> <tr> <td>Female</td> <td>1.448</td> <td>95.25</td> </tr> </tbody> </table>			Height (m)	Mass (kg)	Male	1.68	158.757	Female	1.448	95.25
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22. In a school auditorium there are 33 seats in each row of seats. How many rows are needed for 528 students to each have a seat?	32. An expression is shown. $8 \times (3.8+13.2) - 6$ What value is equivalent to the expression? F 37.6 G 61.4 H 130 J 88
33. Ms. Sikes paid a total of \$95.40 for a 12-month magazine subscription. She paid the same amount each month. What amount did Ms. Sikes pay each month? A \$7.95 B \$7.96 C \$1,144.80 D \$107.40	35. Mr. Roosevelt has 48 nails that each weigh 1.35 ounces. What is the weight of these nails in ounces? A 50.4 oz B 40.4 oz C 64.8 oz D 16.2 oz

Geometry (Measurement, Shape Classification, Perimeter, Area & Volume)

<p>15. In the diagram shown each circle represents a group of polygons. If a polygon belongs in a circle, it also belongs in any larger circle.</p>  <p>Which kind of polygon belongs in the shaded circle? A Trapezoids B Squares C Pentagons D Rhombuses</p>	<p>23. Nathan built the hanging mobile shown in the picture to show some relationships among shapes.</p>  <p>Which shape goes in the empty box in order to complete Nathan's mobile? A Trapezoid B Quadrilateral C Rhombus D Triangle</p>
<p>6. A rectangular billboard is 9.35 meters wide and 6.82 meters tall. What is the perimeter of the billboard in meters?</p>	<p>27. Gabriel bought a dog crate shaped like a rectangular prism with the dimensions shown in the model. What is the area in square inches of the shaded floor of the dog crate?</p>  <p>A 864 square inches B 1,080 square inches C 720 square inches D 1,296 square inches</p>
<p>3. Emily has a box shaped like a rectangular prism that is full of sugar cubes.</p> <ul style="list-style-type: none"> Each sugar cube has a volume of 1 cubic centimeter. The top layer has a width of 6 cm and a length of 11 cm. There are 3 layers of sugar cubes. <p>How many sugar cubes are in the box? A 198 B 66 C 594 D 99</p> 	<p>36. The shaded cube has a volume of 1 cubic unit. Cubes like this one will be used to completely fill a rectangular prism that has the dimensions shown.</p>  <p>How many of these shaded cubes will be needed to completely fill the rectangular prism? F 48 G 80 H 160 J Not here</p>

Prime Number & Composite Number

13. Brenda said that the number 2 is prime because it has only two factors. Carla said that the number 2 is composite because it is even, and all even numbers are composite. Who is correct?
A Brenda is correct. C Both of them are correct.
B Carla is correct. D Neither of them is correct.

Financial Literacy

20. A definition of a financial term is shown in the box.

A tax that includes Social Security and Medicare taxes and is paid by an employer

Which term best fits this definition?
F Payroll tax G Property tax H Sales tax J Gasoline tax

Expressions

19. The length of a piece of yarn is 19.2 units. Jesse cut the piece of yarn into 4 smaller pieces that were all the same length. Which expression represents the length of each smaller piece of yarn?

- A 19.2×4 B $19.2 - 4$ C $19.2 \div 4$ D $19.2 + 4$



16. Margaret opened a new case of lightbulbs.

- The case contained 3 boxes of lightbulbs with 8 lightbulbs in each box.
- Margaret threw 2 of these lightbulbs in the trash because they were damaged.
- Then she took 7 of the lightbulbs out of the case.

Which expression can be used to show that there are 15 lightbulbs still in the case?

- F $3 \times 8 - 2 + 7$ H $3 \times 8 - (2 + 7)$
 G $3(8) - 2(7)$ J $3 + 8 - 2 + 7$

26. Mr. Gonzales is putting in a fence around the perimeter of a playground.

- The perimeter of the playground is 144 ft.
- Each section of the fence is 4 ft long and costs \$12.

Which equation can Mr. Gonzales use to find b , the cost of the sections of fence he needs for the playground?

- F $144 \div (12 \div 4) = b$ H $144 \div (12 \times 4) = b$
 G $(12 \times 4) \times 144 = b$ J $(144 \div 4) \times 12 = b$

5. The relationship between numbers in List X and List Y follows the rule $y = x + 2.05$. Which diagram shows this relationship?

A	<table border="1"> <thead> <tr><th>List X</th><th>List Y</th></tr> </thead> <tbody> <tr><td>29.1</td><td>31.6</td></tr> <tr><td>34.1</td><td>36.6</td></tr> <tr><td>39.1</td><td>41.6</td></tr> <tr><td>44.1</td><td>46.6</td></tr> </tbody> </table>	List X	List Y	29.1	31.6	34.1	36.6	39.1	41.6	44.1	46.6	C	<table border="1"> <thead> <tr><th>List X</th><th>List Y</th></tr> </thead> <tbody> <tr><td>29.1</td><td>31.15</td></tr> <tr><td>34.1</td><td>36.15</td></tr> <tr><td>39.1</td><td>41.15</td></tr> <tr><td>44.1</td><td>46.15</td></tr> </tbody> </table>	List X	List Y	29.1	31.15	34.1	36.15	39.1	41.15	44.1	46.15
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24. Which table represents the equation $y = 3x$?

F	<table border="1"> <thead> <tr><th>x</th><th>y</th></tr> </thead> <tbody> <tr><td>3</td><td>1</td></tr> <tr><td>6</td><td>2</td></tr> <tr><td>15</td><td>5</td></tr> <tr><td>18</td><td>6</td></tr> </tbody> </table>	x	y	3	1	6	2	15	5	18	6	H	<table border="1"> <thead> <tr><th>x</th><th>y</th></tr> </thead> <tbody> <tr><td>1</td><td>1</td></tr> <tr><td>3</td><td>3</td></tr> <tr><td>5</td><td>5</td></tr> <tr><td>7</td><td>7</td></tr> </tbody> </table>	x	y	1	1	3	3	5	5	7	7
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Coordinate Planes

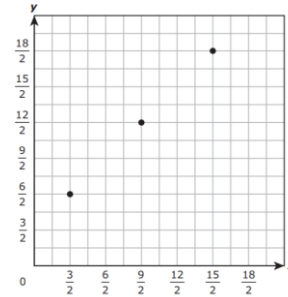
11. Thomas planted a seed and measured the height of the stem each week for four weeks.

- The stem grew 1 inch in the first week.
- The stem grew 2 inches each week after the first week.

Which graph represents the growth of this plant?

A		C	
B		D	

34. Three points are plotted on the coordinate grid.



Which table represents the data plotted in the graph?

F	<table border="1"> <thead> <tr><th>x</th><th>6/2</th><th>12/2</th><th>18/2</th></tr> </thead> <tbody> <tr><th>y</th><td>3/2</td><td>9/2</td><td>15/2</td></tr> </tbody> </table>	x	6/2	12/2	18/2	y	3/2	9/2	15/2	H	<table border="1"> <thead> <tr><th>x</th><th>3/2</th><th>6/2</th><th>9/2</th></tr> </thead> <tbody> <tr><th>y</th><td>6/2</td><td>12/2</td><td>18/2</td></tr> </tbody> </table>	x	3/2	6/2	9/2	y	6/2	12/2	18/2
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y	6/2	12/2	18/2																

9. What are the coordinates of the point where the x-axis and the y-axis intersect on a coordinate plane?
 A (5, 5) B (5, 0) C (0, 5) D (0, 0)

Data Analysis

7. The stem and leaf plot shows the numbers of minutes the members of a team jumped rope during practice.

Practice Times

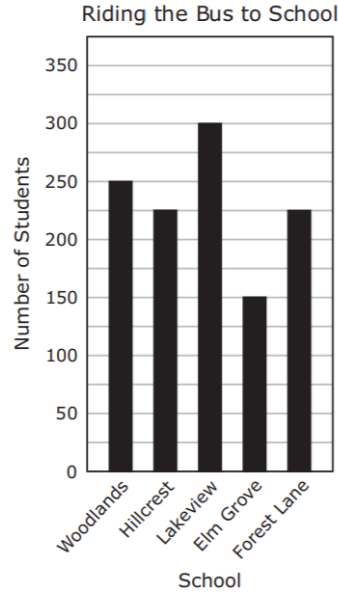
Stem	Leaf
1	9 9
2	0 1 3
3	3 4 6 7
4	1 1 3 5 9 9
5	0 4 2
6	3 5 6

3|6 means 36 minutes.

What is the difference between the least number of minutes jumped and the greatest number of minutes jumped?

A 47 B 9 C 5 D 49

28. The graph shows the number of students at five schools who ride the bus to school.



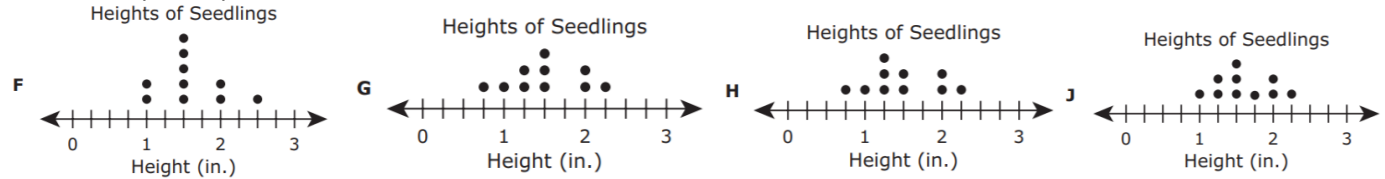
Based on the graph, how many students ride the bus to the Woodlands, Hillcrest, and Lakeview schools?

30. The table shows the heights of 10 seedlings.

Heights of Seedlings

Seedling	A	B	C	D	E	F	G	H	I	J
Height (in.)	$1\frac{1}{4}$	2	$1\frac{1}{4}$	$1\frac{1}{2}$	$\frac{3}{4}$	$2\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$	1	2

Which dot plot represents these data?



Answer Key

1 C	2 G	3 A	4 J	5 C	6 32.34	7 A	8 G
9 D	10 G	11 A	12 G	13 A	14 J	15 B	16 H
17 D	18 G	19 C	20 F	21 A	22 16	23 C	24 G
25 C	26 J	27 A	28 775	29 D	30 G	31 B	32 H
33 A	34 J	35 C	36 J				