

Place Values, Comparison & Estimation

3. • The value of the digit 7 is $(7 \times 10) = 70$
 • The value of the digit 3 is $(3 \times 1,000) = 3,000$
 • The value of the digit 1 is $(1 \times 100) = 100$
 So the number should look like 3,17X.XX
 (A) 3,175.02 B 93,075.01 C 3,651.70 D 9,372.01

7. $557 \approx 560$

 Nearest ten

27. $47.06 = 40 + 7 + 0.06$
 (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 $(4 \times 10) + (7 \times 1) + (0 \times 10) + (6 \times 100)$

30. When you compare numbers, check from the highest place value to lowest place value.
 Higher place value \longleftrightarrow Lower place value

3,894 biggest
 3,806
 3,699
 3,648 smallest

F Hippo W, because $3,806 < 3,648 < 3,894 < 3,699$
 G Hippo X, because $3,806 < 3,894 < 3,648 < 3,699$
 H Hippo Y, because $3,894 < 3,648 < 3,699 < 3,806$
 (J) Hippo Z, because $3,648 < 3,699 < 3,806 < 3,894$

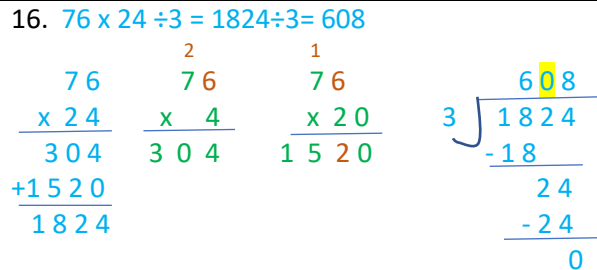
Basic Operations

4.
$$\begin{array}{r} 27 \\ \times 16 \\ \hline 162 \\ + 27 \\ \hline 432 \end{array}$$

F 162 G 189 (H) 432 J Not here

13.
$$\begin{array}{r} 21.75 \\ - 10.29 \\ \hline 11.46 \end{array}$$

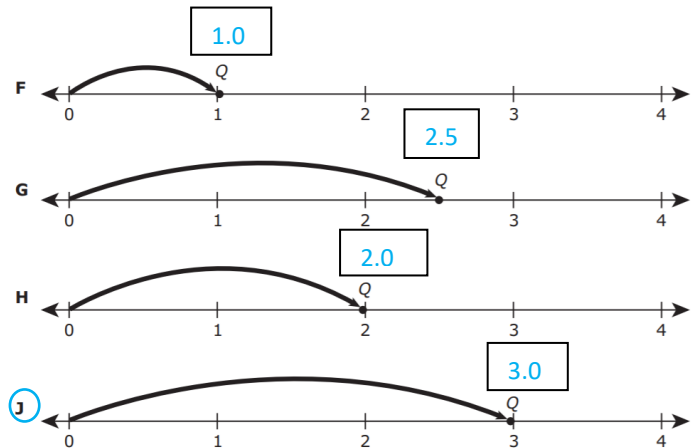
A \$32.04 B \$21.75 (C) \$11.46 D \$10.29

16. $76 \times 24 \div 3 = 1824 \div 3 = 608$


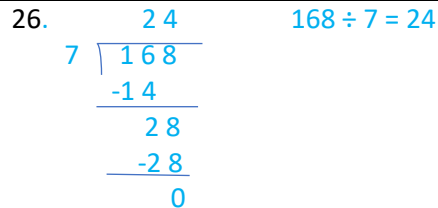
F 5,472 G 300 H 1,824 (J) 608

21. Method 1: $10 - 4.95 - 0.65 - 0.65 - 1.85 = 1.90$
 Method 2: $10 - 4.95 - (0.65 \times 2) - 1.85 = 1.90$
 A \$2.55 B \$2.10 C \$3.45 (D) \$1.90

12. $2.98 \approx 3.0$



(J)

26. $168 \div 7 = 24$


28.
$$\begin{array}{r} 21 \\ 6 \overline{)128} \\ \underline{-12} \\ 8 \\ \underline{-6} \\ 2 \end{array}$$

F 22 fl oz G 21 fl oz H 122 fl oz **J) 2 fl oz**

34. Ms. Gonzales packs 45 boxes with limes. Each box holds 100 limes. How many limes can Ms. Gonzales pack into these boxes?

$45 \times 100 = 4500$

F 4,005 G 450 H 145 **J) 4,500**

Fractions

1. $\frac{6}{10} = 6 \div 10 = 0.6$

$$\begin{array}{r} 0.6 \\ 10 \overline{)6.0} \\ \underline{-6} \\ 0 \end{array}$$

A 6.1 B 6.01 **C) 0.6** D 0.06

32. $0.1 = \frac{1}{10}$
 $0.01 = \frac{1}{100}$ $0.26 = \frac{26}{100}$

F) $\frac{26}{100}$ G $\frac{26}{10}$ H $2\frac{6}{100}$ J $2\frac{1}{6}$

14. Clue 1: $\frac{1}{2} < \frac{2}{3} < \frac{3}{4} < \frac{4}{5} < \frac{5}{6}$ Clue 2: $\frac{5}{10} = \frac{1}{2}$

F $\frac{4}{5} < \frac{5}{10}$ G $\frac{4}{5} < \frac{3}{4}$ H $\frac{3}{4} < \frac{5}{10}$ **J) $\frac{3}{4} < \frac{4}{5}$**

23. Method 1: $\frac{5}{6} > \frac{1}{2}$ and $\frac{6}{12} = \frac{1}{2}$, so $\frac{5}{6} > \frac{6}{12}$.

Method 2: $\frac{5}{6} = \frac{10}{12}$, so $\frac{5}{6} > \frac{6}{12}$

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

6. $\frac{7}{10} - \frac{3}{10} = \frac{4}{10}$

F) $\frac{4}{10}$ G $\frac{4}{7}$ H $\frac{7}{10}$ J $\frac{3}{4}$

18. $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$

F) $\frac{3}{2}$ G $\frac{2}{3}$ H $\frac{4}{2}$ J $\frac{3}{6}$

Expressions

9.

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

A

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

C

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

B

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

D)

11. $8,917 + 7,639 + x = 25,413$

A) $x = 25,413 - 8,917 - 7,639$

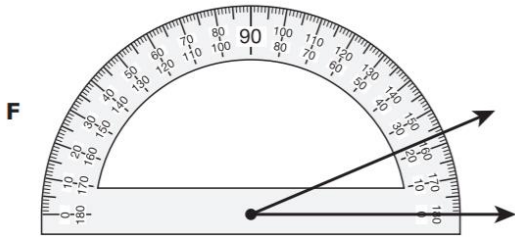
B $x = 25,413 + 8,917 + 7,639$

C $x = 8,917 + 7,639$

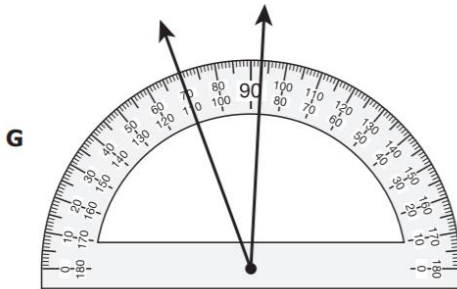
D $x = 8,917 - 7,639$

Geometry (Measurement, Shape Classification, Perimeter & Area)

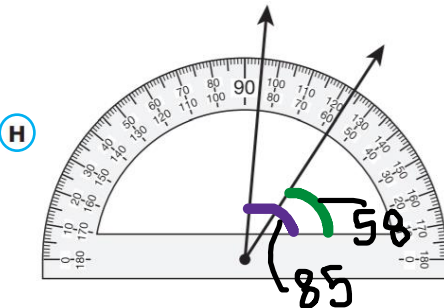
10. Use subtraction to find the answer.



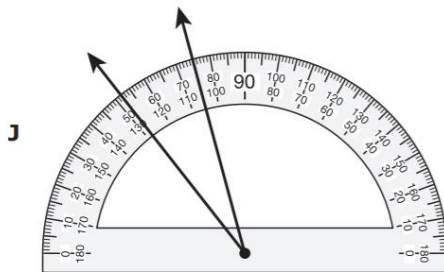
23-0=23



110-87=23



85-58=27



129-106=23

20. - Rectangle and Square have more than one pair of perpendicular sides.

- Acute triangle must have three acute angles.

F Right triangle G Acute triangle H Rectangle J Square

29. Acute triangle: 3 acute angles.

Right triangle: 1 right angle and 2 acute angles.

Obtuse triangle: 1 obtuse angle and 2 acute angles.

A Right triangle, because there is one 90° 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°

5.



Not parallel

Not perpendicular

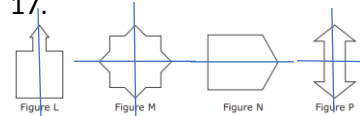
A Polygons with **perpendicular and parallel** lines

B Polygons with **perpendicular lines** only

C Polygons with **acute** and obtuse angles

D Polygons with obtuse angles only

17.



C Figure M and Figure P only

15. Method 1: $29 + 29 + 29 + 29 = 116$

Method 2: $29 \times 4 = 116$

$$\begin{array}{r} 29 \\ \times 4 \\ \hline 116 \end{array}$$

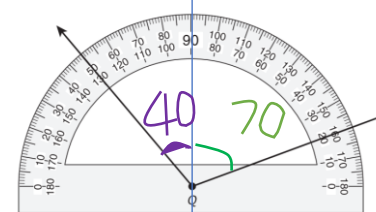
22. much heavier

much heavier

lighter

F Bicycle G Pair of boots H Refrigerator J Bag of chips

25.



A 70°, because 50° plus 20° equals 70° No. It is $70^\circ + 40^\circ = 110^\circ$

B 150°, because 130° plus 20° equals 150°

C 30°, because 160° minus 130° equals 30°

D 110°, because 160° minus 50° equals 110°

Data Analysis

2. Dog Show Scores

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

Scores:

- 0.8
- 1.2 1.5
- 2.2 2.4 2.8
- 3.0 3.3 3.3 3.6 3.8
- 4.0 4.5 4.5

1|5 means a score of 1.5.

$4.5 - 0.8 = 3.7$

F 4.3 **G 3.7** H 0.25 J 0.47

24. Milk

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

Estimations:

- 350
- 400
- 450
- 400
- 400

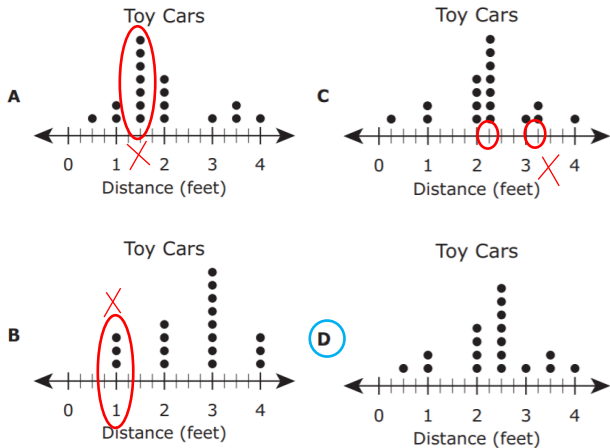
$350 + 400 + 450 + 400 + 400 = 2000$

F 400 G 1,800 **H 2,000** J 2,500

19. 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?



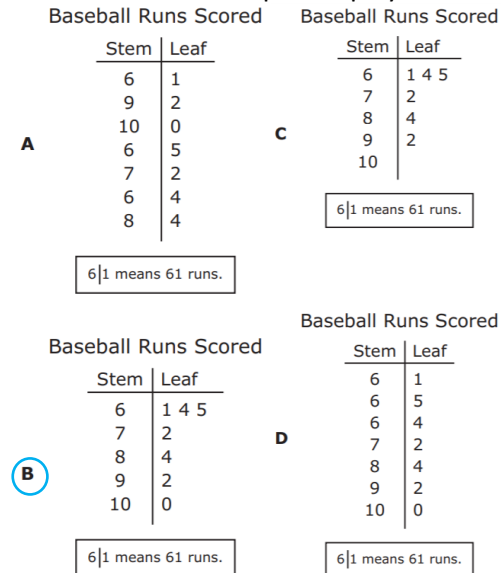
31. Baseball Runs Scored

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

List the numbers:

- 61 64 65
- 72
- 84
- 92
- 100

Which stem and leaf plot displays these data?



Answer Key

1 C	2 G	3 A	4 H	5 D	6 F	7 560	8 F	9 D	10 H	11 A	12 J
13 C	14 J	15 116	16 J	17 C	18 F	19 D	20 F	21 D	22 G	23 A	24 H
25 D	26 24	27 A	28 J	29 A	30 J	31 B	32 F	33 C	34 J		