

## Delta Placement Pre/Post Test

Divide. Write your remainders if the number does not divide evenly.

$$1. \quad 4 \overline{)80}$$

$$\begin{array}{r} 20 \\ 4 \overline{)80} \\ \underline{80} \\ 0 \end{array}$$

$$2. \quad 7 \overline{)53}$$

$$\begin{array}{r} 7 \text{ r.} 4 \\ 7 \overline{)53} \\ \underline{49} \\ 4 \end{array}$$

$$3. \quad 8 \overline{)648}$$

$$\begin{array}{r} 81 \\ 8 \overline{)648} \\ \underline{640} \\ 8 \\ \underline{8} \\ 0 \end{array}$$

$$4. \quad 5 \overline{)396}$$

$$\begin{array}{r} 79 \text{ r.} 1 \\ 5 \overline{)396} \\ \underline{350} \\ 46 \\ \underline{45} \\ 1 \end{array}$$

Divide. Include a fraction in your answer if the number does not divide evenly. Check your answers.

$$5. \quad 25 \overline{)631}$$

$$\begin{array}{r} 25 \frac{6}{25} \\ 25 \overline{)631} \\ \underline{500} \\ 131 \\ \underline{125} \\ 6 \end{array}$$

6. check for #5

$$\begin{array}{r} 25 \\ \times 25 \\ \hline 125 \\ 10 \phantom{0} \\ \hline 625 \\ + 6 \phantom{00} \\ \hline 631 \end{array}$$

$$7. \quad 16 \overline{)349}$$

$$\begin{array}{r} 21 \frac{13}{16} \\ 16 \overline{)349} \\ \underline{320} \\ 29 \\ \underline{16} \\ 13 \end{array}$$

8. check for #7

$$\begin{array}{r} 16 \\ \times 21 \\ \hline 16 \\ 32 \phantom{0} \\ \hline 336 \\ + 13 \phantom{0} \\ \hline 349 \end{array}$$

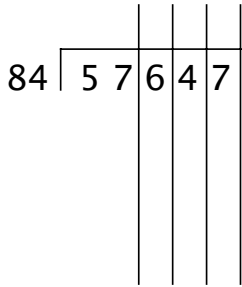
$$9. \quad 6 \overline{)30458}$$

$$\begin{array}{r} 5076 \frac{2}{6} \\ 6 \overline{)30458} \\ \underline{30000} \\ 458 \\ \underline{420} \\ 38 \\ \underline{36} \\ 2 \end{array}$$

10. check for #9

$$\begin{array}{r} 6 \\ \times 5076 \\ \hline 36 \\ 42 \phantom{0} \\ 30 \phantom{00} \\ \hline 30456 \\ + 2 \phantom{000} \\ \hline 30,458 \end{array}$$

11.

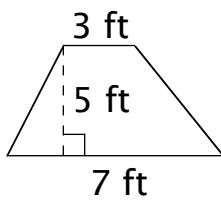


$$\begin{array}{r}
 686 \overline{) 57647} \\
 \underline{50400} \\
 7247 \\
 \underline{58800} \\
 6720 \\
 \underline{67200} \\
 23
 \end{array}$$

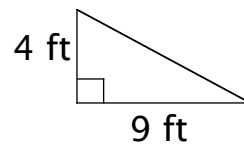
12. check for #11

$$\begin{array}{r}
 686 \\
 \times 84 \\
 \hline
 2744 \\
 5488 \\
 \hline
 57624 \\
 + 23 \\
 \hline
 57647
 \end{array}$$

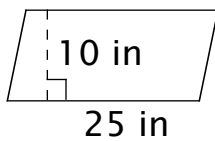
Find the area of each figure.



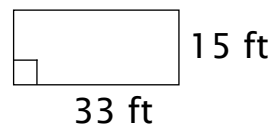
13.  $A = \underline{25 \text{ sq ft}}$



14.  $A = \underline{18 \text{ sq ft}}$

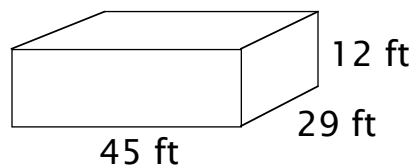


15.  $A = \underline{250 \text{ sq in}}$



16.  $A = \underline{495 \text{ sq ft}}$

Find the volume of the rectangular solid.



17.  $V = \underline{15,660 \text{ cu ft}}$

Fill in the blanks.

18. 27 ft = 9 yd

19. 40 pt = 20 qt

20. 20 qt = 5 gal

21. 5 dollars = 20 quarters

22. 4 lb = 64 oz

23. 1 mi = 5,280 ft

24. 5 tons = 10,000 lb

25. 36 in = 3 ft

26. 40 ft = 480 in

27. 49 to the nearest ten is 50 .

28. 4,009 to the nearest thousand is 4,000 .

29. 459 to the nearest hundred is 500 .

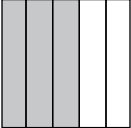
Solve.

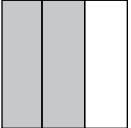
30.  $\frac{1}{3}$  of 12 = 4

31.  $\frac{3}{7}$  of 21 = 9

32.  $\frac{5}{8}$  of 32 = 20

Find the denominators and numerators of fractions represented by the rectangles.

33.   $\frac{\text{numerator}}{\text{denominator}} = \frac{3}{5}$

34.   $\frac{\text{numerator}}{\text{denominator}} = \frac{2}{3}$

35. Write in standard notation:

$$2 \times 1,000,000,000 + 5 \times 100,000,000 + 4 \times 10,000,000 + 3 \times 1,000,000 + 9 \times 100,000$$

2,543,900,000

36. Find the average of the numbers: 5, 12, 13, 21, 24 15

37. What number is represented by the Roman numeral MMCLVIII?  
2,158

38. Write the given date with Roman numerals: 1975 MCMLXXV