Delta Placement Test Answer Key

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

1. $4\overline{)80}$

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

2. $7\overline{)53}$

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

3. $8\overline{)648}$

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

4. $5\overline{)396}$

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

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

5. $25\overline{)631}$

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

6. check for #5

$$\begin{array}{r} 25 \\ \times 25 \\ \hline 125 \\ 10 \\ \underline{40\ } \\ 625 \\ +\ 6 \\ \hline 631 \end{array}$$

7. $16\overline{)349}$

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

8. check for #7

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

9. $6\overline{)30458}$

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

10. check for #9

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

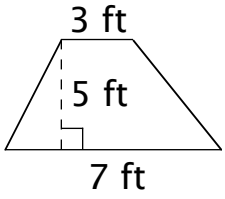
11. $84\overline{)5\,7\,6\,4\,7}$

$$\begin{array}{r} 686\ \frac{23}{84} \\ 84\overline{)57647} \\ \underline{50400} \\ 7247 \\ \underline{6720} \\ 527 \\ \underline{504} \\ 23 \end{array}$$

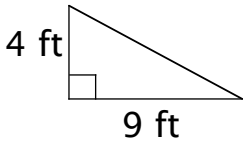
12. check for #11

$$\begin{array}{r} 686 \\ \times\ 84 \\ \hline 2\,744 \\ 5\,488 \\ \hline 57,624 \\ +\ 23 \\ \hline 57,647 \end{array}$$

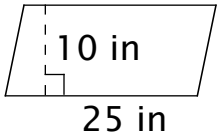
Find the area of each figure.



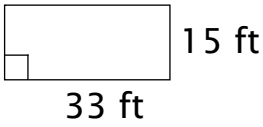
13. A = 25 sq ft



14. A = 18 sq ft

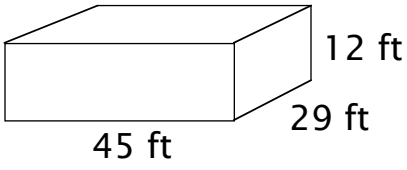


15. A = 250 sq in



16. A = 495 sq ft

Find the volume of the rectangular solid.



17. V = 15,660 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 .

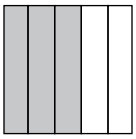
Solve.

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

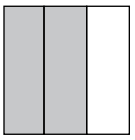
31. $\frac{3}{7}$ of 21 = 9

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