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One-Digit Division

Divide. Check your answer by multiplying.

5 $3 \overline{)645}$

$$\begin{array}{r} 215 \\ 3 \overline{)645} \\ \underline{6} \\ 4 \\ \underline{3} \\ 15 \\ \underline{15} \\ 0 \end{array}$$

1. $4 \overline{)420}$

2. $2 \overline{)700}$

3. $6 \overline{)924}$

5 $8 \overline{)616}$

$$\begin{array}{r} 77 \\ 8 \overline{)616} \\ \underline{56} \\ 56 \\ \underline{56} \\ 0 \end{array}$$

4. $3 \overline{)270}$

5. $5 \overline{)240}$

6. $7 \overline{)588}$

7. $4 \overline{)248}$

8. $8 \overline{)760}$

9. $6 \overline{)354}$

10. $9 \overline{)423}$

11. $3 \overline{)2,550}$

12. $6 \overline{)4,878}$

13. $5 \overline{)3,985}$

14. $8 \overline{)5,112}$

Find the answer to each word problem.

15. A field has 486 apple trees in 6 rows. Each row has the same number of apple trees. How many apple trees are in each row?

16. Samira got a total of 1,840 emails during the past 8 weeks. What is the average number of emails she got each week?

Multiples and Least Common Multiple

List the first ten multiples of each number.

1. 3 _____
2. 4 _____
3. 9 _____
4. 10 _____
5. 15 _____
6. 60 _____
7. 75 _____
8. 200 _____
9. 300 _____
10. 500 _____

Find the common multiples of each pair of numbers using the numbers above.

11. 4 and 10 _____
12. 60 and 75 _____
13. 9 and 15 _____
14. 200 and 500 _____

Find the least common multiple of each pair of numbers.

15. 3 and 9 _____
16. 15 and 75 _____
17. 60 and 200 _____
18. 10 and 15 _____
19. 75 and 200 _____
20. 300 and 500 _____

Find the answer to each word problem.

21. During its grand opening, a restaurant gives every 25th customer a free lunch and every 40th customer a free T-shirt. What customer number will be the first to get a free lunch and a T-shirt?
22. A timer beeps every 120 seconds and flashes a light every 45 seconds. How many seconds are between the moments when the timer beeps and flashes the light at the same time?

Proportions

Solve each proportion for the variable.

8. $\frac{6}{10} = \frac{9}{n}$

$$6n = 90$$

$$\frac{6n}{6} = \frac{90}{6}$$

$$n = 15$$

3. $\frac{3}{8} = \frac{12}{z}$

1. $\frac{1}{3} = \frac{w}{24}$

2. $\frac{2}{5} = \frac{p}{40}$

4. $\frac{4}{b} = \frac{12}{24}$

5. $\frac{t}{3} = \frac{12}{18}$

6. $\frac{5}{15} = \frac{6}{x}$

7. $\frac{6}{9} = \frac{4}{j}$

8. $\frac{s}{8} = \frac{5}{20}$

9. $\frac{7}{h} = \frac{28}{48}$

10. $\frac{v}{10} = \frac{15}{25}$

11. $\frac{5}{10} = \frac{7}{f}$

12. $\frac{6}{18} = \frac{g}{27}$

13. $\frac{4}{5} = \frac{6}{k}$

14. $\frac{u}{6} = \frac{10}{15}$

15. $\frac{8}{q} = \frac{10}{12}$

16. $\frac{c}{4} = \frac{20}{32}$

17. $\frac{8}{12} = \frac{m}{45}$

Problem Solving: Proportions

Find the answer to each word problem.

1. The key on a map shows 1 inch = 4 miles. What is the actual distance between two towns that are 8 inches apart on the map?
2. Carlos proofreads 10 pages in 20 minutes. How many pages can he proofread in 30 minutes?
3. Abigail buys 3 pounds of potato salad for \$6. How much would 5 pounds of potato salad cost?
4. A recipe that serves 8 people uses 2 cups of milk. How many cups of milk should be used in this recipe when serving 12 people?
5. Shiro hikes 4 miles in 80 minutes. How many miles can he hike in 60 minutes?
6. A 6-ounce container of yogurt has 90 calories. How many calories are in 9 ounces of this yogurt?
7. At an arcade, Petra trades 3 tokens for 2 stickers. How many stickers can she get for 12 tokens?
8. Hal answered 4 out of 5 questions correctly on his homework. He answered 20 questions correctly in all. How many questions were on Hal's homework?