


- 1) Determine whether 4503 is divisible by 2, 3, 5, 6, 9, and / or 10.
- 2) Multiply and simplify. $\frac{18}{5} \cdot \frac{15}{14}$
- 3) Divide and simplify. $\frac{5}{12} \div \frac{35}{24}$
- 4) Divide. $477.75 \div 195$
- 5) Simplify. $0.973 + 4.53 \div 0.02$
- 6) Find decimal notation. $\frac{15}{25}$
- 7) Find decimal notation. $\frac{5}{11}$
- 8) Find decimal notation. 1.29%
- 9) Find percent notation. $\frac{17}{25}$
- 10) Find fraction notation and simplify. 2250%
- 11) Solve the problem. Round to the nearest unit.
22 is 4% of what?
- 12) Find the prime factorization of 90.
- 13) Identify the numerator and denominator. $\frac{9}{7}$
- 14) What part of the set of objects is shaded?

- 15) Simplify, if possible. $\frac{84}{96}$
- 16) When Maria finished medical school she owed \$42,000 in student loans. She repaid $\frac{1}{3}$ of the total amount within two years of graduating. How much did she repay within two years of graduating?
- 17) Find the LCM of the set of numbers. 24, 32
- 18) In a group of 100 people, 60 work full-time. What percent do not work full-time?
- 19) Add and, if possible, simplify. $\frac{11}{24} + \frac{3}{36} + \frac{15}{48}$
- 20) Lorrie bought $\frac{1}{8}$ lb of basil and $\frac{1}{7}$ lb of oregano. How many pounds of herbs did she buy in total?
- 21) Subtract and, if possible, simplify. $\frac{11}{15} - \frac{2}{25}$
- 22) From a $\frac{4}{5}$ -lb package of ground beef, a $\frac{1}{4}$ -lb hamburger was made. How much ground beef is left in the package?
- 23) Write decimal notation for $\frac{15}{100,000}$.
- 24) Round 8.4426 to the nearest hundredth.
- 25) Add. $205.8 + 0.07 + 64.07 + 58 + 9.3$
- 26) Subtract. $13.35 - 6.267$
- 27) Multiply.

$$\begin{array}{r} 87.8 \\ \times 2.1 \\ \hline \end{array}$$

28) **Divide.** $0.069 \overline{)0.3174}$

29) An advertisement states that television sets are on sale at B&G Electronics. The prices are:
13-inch set, \$147.99; 19-inch set, \$208.95;
21-inch set, \$231.99; 27-inch set, \$289.97;
50-inch set, \$519.97. Estimate to the nearest ten the total cost of one 19-inch set and one 50-inch set.

30) Mr. Chung grosses \$500 a week. If his take-home pay is \$408.79, how much money was deducted from his gross weekly pay?

31) **Find fractional notation for the ratio. You need not simplify.**
Of a family's \$929 weekly income, \$93 usually goes toward groceries. What is the ratio of the amount spent on groceries to weekly income?

Find the indicated rate.

32) Last basketball season, Danny scored 866 points in 70 games. What was the rate in points per game? Round to the nearest tenth if necessary.

33) **Solve.** $\frac{44}{196} = \frac{11}{x}$

34) On Anne's bicycle, the ratio of pedal turns to rear-wheel turns in second gear is 4 to 7. If her rear wheel turns 595 times per mile, how many times does she turn the pedal in one mile?

35) **When necessary, round to the nearest hundredth.** What is 4% of 2500?

36) In one town, 840 of the 1750 people who voted in the last presidential election are Hispanic. What percent is this?

37) After spending \$2950 for tables and \$3850 for chairs a convention center manager finds that the furniture cost 3% more than last year. Find the amount that he spent last year on tables and chairs. Round your answer to the nearest dollar.

Answer Key

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1) 3

2) $\frac{27}{7}$

3) $\frac{2}{7}$

4) 2.45

5) 227.473

6) 0.6

7) $0.\overline{45}$

8) 0.0129

9) 68%

10) $\frac{45}{2}$

11) 550

12) $2 \cdot 3 \cdot 3 \cdot 5$

13) Numerator: 9

Denominator: 7

14) $\frac{2}{6}$

15) $\frac{7}{8}$

16) \$14,000

17) 96

18) 40%

19) $\frac{41}{48}$

20) $\frac{15}{56}$ lb

21) $\frac{49}{75}$

22) $\frac{11}{20}$ lb

23) 0.00015

24) 8.44

25) 337.24

26) 7.083

27) 184.38

28) 4.6

29) \$730

30) \$91.21

31) $\frac{93}{929}$

32) 12.4 points/game

33) 49

34) 340 times

35) 100

36) 48%

37) \$6602