From 1.1.1 Adding Integers

1. Find the sum $-37 + (-25)$.

2. Evaluate

From 1.1.2 Subtracting Integers

3. Find the difference $-50 - (-47)$.

4. Evaluate $p - q$ for $p = -13$ and $q = -50$.

From 1.1.3 Multiplying and Dividing Integers

5. Find the quotient $-114 \div -6$.

6. A submarine started at the surface of the water and was moving down at -16 kilometers per minute toward the ocean floor. The submarine traveled at this rate for 50 minutes before coming to rest on the ocean floor. What is the depth of the ocean floor?
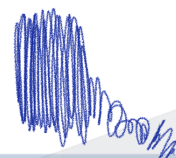
From 1.2.1 Adding and Subtracting Fractions and Mixed Numbers

7. Add.

$$\frac{5}{8} + \frac{3}{20} =$$

8. Subtract.

$$6\frac{4}{7}$$
$$-5\frac{1}{3}$$

From 1.2.2 Multiplying Rational Numbers

9. Multiply.

$$-7\left(\frac{3}{9}\right)$$

10. Multiply.

5.4(−0.42)

From 1.1.3 Dividing Rational Numbers

11. Divide.

5.382 ÷ 6.9

12. Divide

$$5\frac{2}{3} \div 3\frac{1}{2}$$

From 1.3.1 Introduction to Exponents

13. Write the expression in exponential form.

$(b)(b)(b)(b)(b)(b)$

14. Write the number 125 using an exponent and the base 5.

From 1.3.2 Squares and Square Roots

15. Find

$$\sqrt{144}$$

16. A square playground has an area of 279 ft². What is the approximate length of each side of the playground? Round your answer to the nearest foot.
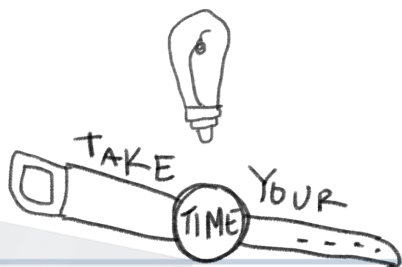
From 1.3.3 Using the Order of Operations

17. Simplify.

30 − 5(2)

18. Simplify.

$8(3)^2$

TAKE YOUR TIME

From 1.3.4 Ratios and Proportions

19. Simplify.

$4 + 3(5)^2 - 1$
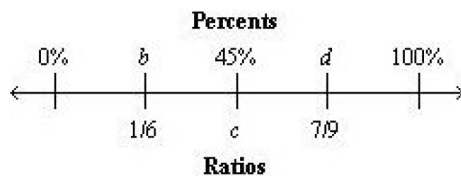
20. Find two ratios that are equivalent to 15/36.

21. Simplify to tell whether the two ratios form a proportion.

$\dfrac{48}{36}$ and $\dfrac{56}{42}$

22. Sal earns $760 per week. Lidia earns $475 per week. Are their salaries proportional if Sal works 40 hours per week and Lidia works 25 hours per week?

From 1.3.5 Relating Decimals, Fractions, and Percents

23. Find the missing ratio or percent equivalent for each letter on the number line. If necessary, round answers to the nearest tenth.

Percents

| 0% | b | 45% | d | 100% |

| 1/6 | c | 7/9 |

Ratios

24. Compare by using < , > , or =.

0.485 ____ 4%

25. Order the numbers 0.32, 269%, 93/100, and 0.27% from least to greatest.

Go online to see the answers and step-by-step solutions for these questions.