

8th Grade Review



- I can use & apply the skills learned through Lesson 60.

A paper box holds 12 reams of paper. If 3600 boxes are on the truck, how many reams of paper are on the truck?

$$3600 \text{ boxes} \cdot \frac{12 \text{ reams}}{1 \text{ box}} = 43,200 \text{ reams}$$

If we have 1236 reams of paper, how many boxes do we need to hold all the paper?

$$\begin{array}{r} 103 \\ 1236 \end{array} \text{ reams} \cdot \frac{1 \text{ box}}{12 \text{ reams}} = 103 \text{ boxes}$$

The Hill family traveled 660 miles in 12 hours. If they traveled at the same rate on a different day, how far could they go in 9 hours?

$$9 \text{ hrs} \cdot \frac{660 \text{ mi}}{12 \text{ hr}} = 495 \text{ mi}$$

The machine bottled 8,000 bottles in 4 hours. At this rate, how long would it take to bottle 50,000 bottles?

$$50,000 \text{ bottles} \cdot \frac{1 \text{ hr}}{8,000 \text{ bot.}} = 25 \text{ hr.}$$

Complete the table. Begin by inserting the reference numbers.

	FRACTION	DECIMAL	PERCENT
Ref →	$\frac{51}{100}$	0.51	51%
	$\frac{12}{100} = \frac{3}{25}$	0.12	12%
	$\frac{5}{6}$	$0.8\bar{3}$	$83\frac{1}{3}\%$

$$6 \overline{) 5.000} \begin{matrix} .833 \\ \underline{48} \\ 20 \\ \underline{18} \\ 20 \\ \underline{18} \\ 2 \end{matrix}$$

83.333

Write 532,000,000,000 in scientific notation.

$$5.32 \cdot 10^{11}$$

Write 8.05×10^{-5} in standard notation.

$$\underbrace{00008.05}_{0.0000805}$$

Write 0.00000000456 in scientific notation.

$$4.56 \cdot 10^{-9}$$

What is 1% of 18.3?

$$0.183$$

What is 95% of 18.3?

$$17.385$$

$$\begin{array}{r} 0.183 \\ \times 95 \\ \hline \end{array}$$

What is 120% of 18.3?

$$21.96$$

$$\begin{array}{r} 0.183 \\ \times 120 \\ \hline \end{array}$$

Use two unit multipliers to convert 16,000 square meters to square centimeters.

$$16,000 \text{ m}^2 \cdot \frac{100 \text{ cm}}{1 \text{ m}} \cdot \frac{100 \text{ cm}}{1 \text{ m}}$$

$$160,000,000 \text{ cm}^2$$

Use two unit multipliers to convert 30,000 square meters to square kilometers.

$$30,000 \text{ m}^2 \cdot \frac{1 \text{ km}}{1000 \text{ m}} \cdot \frac{1 \text{ km}}{1000 \text{ m}} = 0.03 \text{ km}^2$$

What is the circumference & area of a circle with a radius of 14 feet?

$$C = \pi d$$

$$d = 2r$$

$$A = \pi r^2$$

Use π instead of 3.14

$$C = 28\pi \text{ ft}$$

$$A = 14^2 \pi = 196\pi \text{ ft}^2$$

Five and two thirds of what number is $3\frac{1}{4}$?

$$5\frac{2}{3} \cdot A = 3\frac{1}{4}$$

$$\frac{3}{17} \cdot \frac{17}{3} \cdot A = \frac{13}{4} \cdot \frac{3}{17}$$

$$A = \frac{39}{68}$$

What fraction of $8\frac{3}{4}$ is $5\frac{1}{2}$?

$$F \cdot 8\frac{3}{4} = 5\frac{1}{2}$$

$$\frac{4}{35} \cdot F \cdot \frac{35}{4} = \frac{11}{8} \cdot \frac{42}{35}$$

$$F = \frac{22}{35}$$

Assignment:

Pgs. 201-203 #1, 2, 6, 7, 9-12

