



Summer Math Program
Entering Seventh Grade
Week 9



Fast Facts

See how many you can do in one minute!

$$(+4) + (-5) = \qquad (+7) - (+6) =$$

$$(+1) + (-6) = \qquad (+7) + (-9) =$$

$$(-7) - (-2) = \qquad (+10) \div (-2) =$$

$$(+1) \times (0) = \qquad (+72) \div (-9) =$$

$$(+7) \times (+8) = \qquad (-32) \div (-8) =$$

$$(-2) \times (-2) = \qquad (-6) \times (+1) =$$

$$(-1) - (-7) = \qquad (-1) + (-3) =$$

Absolutely Absolute Value!

For a Khan Academy lesson on absolute value, go to:

<http://www.khanacademy.org/math/algebra/absolute-value/v/absolute-value-and-number-lines>.

Find the absolute value.

$$|2| = \underline{\hspace{2cm}}$$

$$|-25| = \underline{\hspace{2cm}}$$

$$|-5| = \underline{\hspace{2cm}}$$

$$|-42| = \underline{\hspace{2cm}}$$

$$|-7| = \underline{\hspace{2cm}}$$

$$|22| = \underline{\hspace{2cm}}$$

$$|18| = \underline{\hspace{2cm}}$$

$$|-6| = \underline{\hspace{2cm}}$$

Fractions, Decimals, Ratios, & Percents

Find the value of each percent.

$35\% \text{ of } 31$

$36\% \text{ of } 74$

$64\% \text{ of } 41$

$33\% \text{ of } 40$

What is greater? Use $<$, $>$, or $=$ for each pair.

$46\% \text{ of } 86 \text{ ___ } 43\% \text{ of } 26$

$95\% \text{ of } 58 \text{ ___ } 35\% \text{ of } 24$

Find each sum.

$$\begin{array}{r} 64.81 \\ + 69.33 \\ \hline \end{array}$$

$$\begin{array}{r} 36.31 \\ + 92.27 \\ \hline \end{array}$$

$$\begin{array}{r} 45.43 \\ + 37.31 \\ \hline \end{array}$$

$$\begin{array}{r} 40.83 \\ + 60.82 \\ \hline \end{array}$$

$$\begin{array}{r} 14.84 \\ + 80.13 \\ \hline \end{array}$$

Find each difference.

$$\begin{array}{r} 8.02 \\ - 5.24 \\ \hline \end{array}$$

$$\begin{array}{r} 7.42 \\ - 7.33 \\ \hline \end{array}$$

$$\begin{array}{r} 3.91 \\ - 1.35 \\ \hline \end{array}$$

$$\begin{array}{r} 6.73 \\ - 3.67 \\ \hline \end{array}$$

$$\begin{array}{r} 7.51 \\ - 2.16 \\ \hline \end{array}$$

Find each product.

$$\begin{array}{r} 59 \\ \times 0.75 \\ \hline \end{array}$$

$$\begin{array}{r} 5.8 \\ \times 4.6 \\ \hline \end{array}$$

$$\begin{array}{r} 52 \\ \times 0.93 \\ \hline \end{array}$$

$$\begin{array}{r} 4.1 \\ \times 0.23 \\ \hline \end{array}$$

Calculate the following quotients.

$$2.05 \overline{)8.9995}$$

$$6.29 \overline{)38.1174}$$

$$5.16 \overline{)8.6688}$$

$$2.43 \overline{)4.2039}$$

FRACTIONS IN ACTION

Solve the follow problems by writing a mathematical statement (equation) to represent the situation.

Problem and Answer

Work and Statement

1. Ian has $4\frac{1}{2}$ cups of flour he wants to split up among $3\frac{1}{2}$ recipe portions. How much flour will be in each portion? Explain how you got your answer.

2. Roland is cutting strips of fabric to make streamers for the school's renaissance fair. Each streamer is $5\frac{1}{4}$ inches wide.

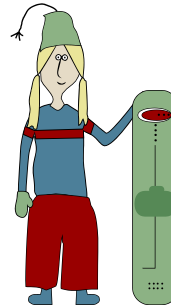
3. When planting trees in a forest, the U.S. Forest Service recommends giving each seedling about $\frac{1}{200}$ acre on which to grow.

Algebraic Story Problems

1. Janice is comparing two snowboards. The shorter board is 124 cm long. Write an expression that shows the length of the longer board. Let a represent the difference between the lengths of the two boards.



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2. Rita also wants a snowboard that reaches between her chin and her nose. She measures the height of her chin as 126 cm. Write an expression that represents how much higher the board is than Rita's chin level. Let c represent the height of the board.



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3. A symphony is divided into three movements. The second movement is 4 minutes longer than the first. The third movement is twice as long as the first. The full symphony is 40 minutes long. Write an equation to show the length of each movement.



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4. Lizbeth is writing background music for a video her brother made. The video is $6\frac{1}{2}$ minutes long. So far, she has written $3\frac{3}{4}$ minutes of music. To find out how much more music she needs to write, she uses the equation $n - 6\frac{1}{2} = 3\frac{3}{4}$. Is that the right equation to use? Why or why not?



Web Links

Try these web sites for additional practice and interactive learning!

- Spider Match

http://www.mathplayground.com/SB_SpiderMatchIntegers.html