Summer Math Program
Entering Seventh Grade
Week 3

Fast Facts

See how many you can do in one minute!

50 ÷ 10= _____	63 ÷ 9 = _____	54 ÷ 9 = _____	24 ÷ 12=_____
84 ÷ 7 = _____	36 ÷ 3 = _____	24 ÷ 3 = _____	42 ÷ 7 = _____
56 ÷ 8 = _____	45 ÷ 5 = _____	49 ÷ 7 = _____	25 ÷ 5 = _____
72 ÷ 8 = _____	48 ÷ 8 = _____	40 ÷ 4 = _____	36 ÷ 4 = _____
63 ÷ 7 = _____	72 ÷ 6 = _____	32 ÷ 8 = _____	81 ÷ 9 = _____

Perfecting Percents

(For a Khan Academy lesson on percentages, go to:
http://www.khanacademy.org/math/arithmetic/percents/v/solving-percent-problems)

1. Find each number.

10 is 20% of what number?

_____

30% of what number is 60?

_____

110% of 78

_____

65% of 80

_____

2. Find each percent.

What percent of 200 is 98?

_____

17 is what percent of 68?

_____

3. Ryan and his grandfather both collect baseball cards. Together, they have a total of 1,200 cards. Ryan calculates that 20% of the cards are his own. How many cards are his grandfather's? How many cards does Ryan have?

_____ _____

4. Find 20% of each number.

50 _____ 136 _____ 1,890 _____

5. Solve.

The bill for dinner was $76. Chuck left a 20% tip. How much was the tip? _____

Carol likes to leave 10% of one night's stay for the cleaning crew at a hotel. If the Highfield Hotel charges $155 per night, how much did Carol leave for the cleaning crew? _____

Awesome Algebra!

Solve using inverse operations.

1. $z + 24 = 32$ _____ 2. $6m = 48$ _____ 3. $d - 37 = 23$ _____

4. $k \div 5 = 22$ _____ 5. $g - 72 = 15$ _____ 6. $f + 267 = 645$ _____

Expressions and Equations

1. How should you solve the equation 5x = 25?

a. Subtract 5 from both sides of the equation.
b. Subtract 5 from the left side and 20 from the right side.
c. Divide both sides of the equation by 5.
d. Divide the left side by x and the right side by 5.

2. Tammy says that the equation 50x = 1350 is the same as 10x = 270? How could she prove this?

a. She could subtract 40x from the first equation to get the second equation.
b. She could add 50x and 10x, and 1350 and 270.
c. She could divide both sides of the first equation by 5 to get the second equation.
d. She could find the ratio of 1350 to 270.