DIVISION IS TAKING OUT REPEATEDLY

FACT 1: Division is how many times one amount can be taken out of another.

(a) There are 30 pennies on the table. How many times can you take 6 pennies out?

$$30 - 6 - 6 - 6 - 6 - 6 = 0$$

You can take 6 pennies out of 30 pennies 5 times. After that you have no pennies left on the table.

(b) How many years are there in 100 months?

$$100 - (12+12+12+12+12+12+12+12) = 4$$

You keep taking a year (12 months) out at a time until less than a year is left. The largest multiple of 12 that you can take out is 12 x 8 = 96. After that only 4 months are left, and you cannot take out another year. So, there are 8 years in 100 months with 4 months left.

FACT 2: Division is the same level of operation as multiplication.

(a) A man divided $28 equally among 4 boys. How many did he give each?

Find the largest multiple of 4 that can be taken out of 28. Ask 4 times "what?" is closest to 28 that can be taken out of 28. The answer is 7. Since 4 x 7 =28, nothing would be left. So, the man gave $7 to each boy.

(b) If a man travels 3 miles in an hour, how many hours will it take him to travel 27 miles?

Each hour the man travels 3 miles. Ask 3 miles times "what?" is closest to 27 miles that can be taken out of 27 miles. The answer is 9. Since 3 x 9 =27, nothing would be left. So, the man will take 9 hours to travel 27 miles.

1. Divide. You may verify your answers on a calculator.

(a) 9 ÷ 3	**(e) 8 ÷ 4**	**(i) 25 ÷ 5**	**(m) 12 ÷ 4**
(b) 8 ÷ 2	**(f) 15 ÷ 5**	**(j) 24 ÷ 6**	**(n) 12 ÷ 6**
(c) 6 ÷ 2	**(g) 21 ÷ 3**	**(k) 16 ÷ 4**	**(o) 24 ÷ 8**
(d) 9 ÷ 1	**(h) 28 ÷ 7**	**(l) 12 ÷ 3**	

2. Solve the following using division.

(a) If there are 20 pennies on the table, how many times can you take 5 pennies out?

(b) $42 was divided equally among 6 boys. How many $ did each boy receive?

(c) There are 32 dimes on a table in 4 piles. How many dimes are there in each pile?

End of Lesson