

Daily Math

Week 15 (2013-2014)

Mon. November 25, 2013

Tues. November 26, 2013

Monday, November 25, 2013

1st

The table below shows the first four terms of a pattern. What is the seventh term in the list?

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6	Term 7
18	15	12	9			

Monday, November 25, 2013 1st

The table below shows the first four terms of a pattern. What is the seventh term in the list?

Answer:

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6	Term 7
18	15	12	9	6	3	0

Monday, November 25, 2013 **2nd**

If a rental car company charges \$25.00 for renting a car plus ten (.10) for each mile you drive, what would be the cost of renting a car for one day and driving 30 miles?

Monday, November 25, 2013 2nd

If a rental car company charges \$25.00 for renting a car plus ten (.10) for each mile you drive, what would be the cost of renting a car for one day and driving 30 miles?

Answer: $\$25 \times 1 \text{ day} + \$0.10(30 \text{ miles})$
 $= \$25 + \$3 = \mathbf{\$28}$

Monday, November 25, 2013 3rd

What are the next three terms in the following pattern?

72, 63, 54, _____, _____, _____

Monday, November 25, 2013 3rd

What are the next three terms in the following pattern?

72, 63, 54, _____, _____, _____

Answer:

72, 63, 54, **45**, **36**, **27**

Monday, November 25, 2013 4th

In a flu epidemic, 3 cases were found the first day, 8 cases on the second day, 18 cases on the third day, and 38 cases on the fourth day. If this pattern continues, on what day will they find 158 cases?

Monday, November 25, 2013 4th

In a flu epidemic, 3 cases were found the first day, 8 cases on the second day, 18 cases on the third day, and 38 cases on the fourth day. If this pattern continues, on what day will they find 158 cases?

Answer: Put into a table:

Day	1	2	3	4	5	6
Cases	3	8	18	38	78	158

Note that the pattern has a difference that doubles each day. **Day 6**

Monday, November 25, 2013 5th

Tom made 124 out of 320 shots. If he takes 200 shots, how many should he make?

Monday, November 25, 2013 5th

Tom made 128 out of 320 shots. If he takes 200 shots, how many should he make?

Answer: $\frac{128 \text{ made}}{320 \text{ total}} = \frac{x \text{ made}}{200 \text{ total}}$
 $(128)(200) = (320)(x)$
 $25600 = 320x$
 $25600 \div 320 = 320x \div 320$
 $80 = x$
Tom should make **80** shots

Monday, November 25, 2013 6th

If 12 dozen cookies require 6 cups of flour, how much flour is in a dozen cookies?

Monday, November 25, 2013 6th

If 12 dozen cookies require 6 cups of flour, how much flour is in a dozen cookies?

Answer: 12 dozen needs 6 cups

1 dozen needs $\frac{6}{12}$ cups

$\frac{1}{2}$ cup of flour

Monday, November 25, 2013 7th

If 3 out of every 7 cars are white, how many white cars are there on a 350-car lot?

Monday, November 25, 2013 7th

If 3 out of every 7 cars are white, how many white cars are there on a 350-car lot?

Answer: $\frac{3 \text{ white cars}}{7 \text{ total cars}} = \frac{x \text{ white cars}}{350 \text{ total cars}}$

$$3(350) = 7x$$

$$1050 \div 7 = 7x \div 7$$

$$150 = x$$

150 white cars

Tuesday, November 26, 2013 1st

If 2 lbs. of a product costs \$3.50, how much are 7 lbs.?

Tuesday, November 26, 2013 1st

If 2 lbs. of a product costs \$3.50, how much are 7 lbs.?

Answer: $\frac{\$3.50}{2 \text{ lbs.}} = \frac{x}{7 \text{ lbs.}}$

$$7(\$3.50) = 2x$$

$$\$24.50 = 2x$$

$$x = \$12.50$$

Tuesday, November 26, 2013 2nd

A school has 4 boys for every 5 girls. If there are 385 girls, how many boys are there?

Tuesday, November 26, 2013 2nd

A school has 4 boys for every 5 girls. If there are 385 girls, how many boys are there?

Answer: $\frac{4 \text{ boys}}{5 \text{ girls}} = \frac{x \text{ boys}}{385 \text{ girls}}$

$$4(385) = 5x$$

$$1540 \div 5 = 5x \div 5$$

$$308 = x$$

308 boys

Tuesday, November 26, 2013 3rd

A study showed that 17 out of 50 high school students get an adequate amount of sleep. Out of 1800 students, how many get enough sleep?

Tuesday, November 26, 2013 3rd

A study showed that 17 out of 50 high school students get an adequate amount of sleep. Out of 1800 students, how many get enough sleep?

Answer: $\frac{17}{50} (1800) = 612$

612 students get enough sleep

Tuesday, November 26, 2013 4th

If a waterfall spills 25 cubic feet per second, how many cubic feet will it spill in an hour?

Tuesday, November 26, 2013 4th

If a waterfall spills 25 cubic feet per second, how many cubic feet will it spill in an hour?

$$\text{Answer: } \frac{25 \text{ cubic ft}}{\text{sec}} \left(\frac{60 \text{ sec}}{1 \text{ min}} \right) \left(\frac{60 \text{ min}}{1 \text{ hr}} \right)$$
$$\underline{\underline{90000 \text{ cubic ft}}}$$
$$\text{hr}$$

Tuesday, November 26, 2013 5th

If a car rental is \$32 per day and 28¢ per mile, how much is it to rent a car for 5 days and drive 300 miles?

Tuesday, November 26, 2013 5th

If a car rental is \$32 per day and 28¢ per mile, how much is it to rent a car for 5 days and drive 300 miles?

Answer: $5(\$32) + 300(\$0.28)$

$\$160 + \84

\$244

Tuesday, November 26, 2013 6th

If a car rental is \$23 per day and 21¢ per mile, how much is it to rent a car for 2 days and drive 200 miles?

Tuesday, November 26, 2013 6th

If a car rental is \$23 per day and 21¢ per mile, how much is it to rent a car for 2 days and drive 200 miles?

Answer: $2(\$23) + 200(\$0.21)$

$\$46 + \42

\$88

Tuesday, November 26, 2013 7th

If a person makes \$250 in wages and pays \$23 in taxes, how much is left?

Tuesday, November 26, 2013 7th

If a person makes \$250 in wages and pays \$23 in taxes, how much is left?

Answer: $\$250 - \23
 $= \mathbf{\$227}$