#1 ID: 3c8fdc40

A printer produces posters at a constant rate of 42 posters per minute. At what rate, in posters per hour, does the printer produce the posters?

#2 ID: 3f5398a6

For a person m miles from a flash of lightning, the length of the time interval from the moment the person sees the lightning to the moment the person hears the thunder is k seconds. The ratio of m to k can be estimated to be 1 to 5. According to this estimate, the person is how many miles from a flash of lightning if the time interval is 25 seconds?

- A) 10
- B) 9
- C) 6
- D) 5

#3 ID: 86636d8f

A customer spent \$ 27 to purchase oranges at \$ 3 per pound. How many pounds of oranges did the customer purchase?

#4 ID: fe4c1c9e

A mechanical device in a workshop produces items at a constant rate of 60 items per hour. At this rate, how many items will the mechanical device produce in 3 hours?

#5 ID: 000259aa

A group of monarch butterflies migrated from Chicago, Illinois, to Michoacán, Mexico, flying a total of 2,100 miles. It took a single butterfly in the group 120 days to travel this route one way. On average, how many miles did the butterfly travel per day?

- A) 0.057
- B) 0.729
- C) 17.5
- D) 24

#6 ID: 312ba47c

In a box of pens, the ratio of black pens to red pens is 8 to 1. There are 40 black pens in the box. How many red pens are in the box?

- A) 5
- B) 8
- C) 40
- D) 320

Math I Problem Solving and Data Analysi	s I Ratio	os, Rates, Proportions, Units I Easy
# 7 ID: 15617f62	#9	ID: 3f236a64
The population density of Worthington is 290 people per square mile. Worthington has a population of 92,800 people. What is the area, in square miles, of Worthington? A) 102,400 B) 93,090 C) 320 D) 32	ord A) B) C)	4 12 20 k the table above, the ratio of y to x for each dered pair is constant. What is the value of k? 28 36 80
# 8 ID: be35c117	D)	160
A wind turbine completes 900 revolutions in 50 minutes. At this rate, how many revolutions per minute does this turbine complete? A) 18 B) 850	len	ID: da9ffcf6 The ratio of the length of line segment XY to the length of line segment ZV is 6 to 1. If the length line segment XY is 102 inches, what is the
C) 950	len	gth, in inches, of line segment ZV?
D) 1,400		96
		102 612

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Math I Problem Solving and Data Analysis I Ratios, Rates, Proportions, Units I Easy					
#11	ID: 6310adbc	#14	ID: e9841407		
The ratio of t to u is 1 to 2, and t = the value of u? A) 2 B) 5 C) 10 D) 20	10. What is	· ·	ed cards and 28 blue cards. of red cards to blue cards that		
#12	ID: 2d16d62c				
A special camera is used for under research. When the camera is at a fathoms, what is the camera's dept (1 fathom = 6 feet)	depth of 58	How many <u>yards</u> (5.5 yards = 1 re	are equivalent to 77 rods?		
#13	ID: aeeaec96	#16	ID: fe1ec415		
How many <u>yards</u> are equivalent to (1 yard = 36 inches) A) 0.059 B) 17 C) 576 D) 22,032	612 inches?	A cherry pitting machine pits 12 pounds of cherries in 3 minutes. At this rate, how many minutes does it take the machine to pit 96 pounds of cherries? A) 8 B) 15 C) 24 D) 36			

Math I Problem Solving and Data Analysis I Ratios, Rates, Proportions, Units I Easy

#17 ID: ba62b0b0

A kangaroo has a mass of 28 kilograms. What is the kangaroo's mass, in grams?

(1 kilogram = 1,000 grams)

A) 28,000

B) 1,028

C) 972

D) 784

#18 ID: 7cd1c6db

An object travels at a constant speed of 12 centimeters per second. At this speed, what is the time, in seconds, that it would take for the object to travel 108 centimeters?

A) 9

B) 96

C) 120

D) 972

#19 ID: 24ad9dcb

The weight of an object on Venus is approximately $\frac{9}{10}$ of its weight on Earth. The weight of an object on Jupiter is approximately $\frac{23}{10}$ of its weight on Earth. If an object weighs 100 pounds on Earth, approximately how many more pounds does it weigh on Jupiter than it weighs on Venus?

A) 90

B) 111

C) 140

D) 230

#20

ID: d0d9ede4

How many feet are equivalent to 34 yards?

(1 yard = 3 feet)

#21 ID: 06a152cd

To make a bakery's signature chocolate muffins, a baker needs 2.5 ounces of chocolate for each muffin. How many <u>pounds</u> of chocolate are needed to make 48 signature chocolate muffins? (1 pound = 16 ounces)

A) 7.5

B) 10

C) 50.5

D) 120

#22 ID: 85b33aa8

A fish swam a distance of 5,104 yards. How far did the fish swim, in miles?

- (1 mile = 1,760 yards)
- A) 0.3
- B) 2.9
- C) 3,344
- D) 6,864

#23 ID: 2cdefcb1

What length, in <u>centimeters</u>, is equivalent to a length of 51 meters?

- (1 meter = 100 centimeters)
- A) 0.051
- B) 0.51
- C) 5,100
- D) 51,000

#**24** ID: 3ac09984

Marta has 7,500 pesos she will convert to US dollars using a currency exchange service. At this time, the currency exchange rate is 1 peso = 0.075 US dollars. The exchange service will charge Marta a 2% fee on the converted US dollar amount. How many US dollars will Marta receive from the currency exchange after the 2% fee is applied?

- A) \$551.25
- B) \$562.50
- C) \$5,625.00
- D) \$98,000.00

#25 ID: 7270d642

A certain bird species can fly at an average speed of 16 meters per second when in continuous flight. At this rate, how many meters would this bird species fly in 4 seconds?

- A) 64
- B) 20
- C) 16
- D) 12

Math I Problem Solving and Data Analysis I Ratios, Rates, Proportions, Units I Easy

#26 ID: 8bf3f67a

A special camera is used for underwater ocean research. The camera is at a depth of 39 fathoms. What is the camera's depth in <u>feet</u>?

- (1 fathom = 6 feet)
- A) 234
- B) 117
- C) 45
- D) 7

#27 ID: 551c52b9

Tilly earns p dollars for every w hours of work. Which expression represents the amount of money, in dollars, Tilly earns for 39w hours of work?

- A) 39p
- B) $\frac{p}{30}$
- C) p + 39
- D) *p* 39

#28 ID: 94660ba8

A participant in a bicycle race completes the race with an average speed of 24,816 yards per hour. What is this average speed, in <u>miles</u> per hour? (1 mile = 1,760 yards)

#29 ID: 4837406c

An object travels at a constant speed of 6 centimeters per second. At this speed, what is the time, in seconds, that it would take for the object to travel 24 centimeters?

#30 ID: 99550621

Makayla is planning an event in a 5,400-squarefoot room. If there should be at least 8 square feet per person, what is the maximum number of people that could attend this event?

- A) 588
- B) 675
- C) 15,274
- D) 43,200

#31 ID: 3318d37b

A product costs 11.00 dollars per pound. What is the cost, in dollars, for 6 pounds of the product?

Math	Problem Solving and Data Analysis	Ratios, Rates, P	roportions, Units I Easy
#32	ID: 808f7d6c	#35	ID: 763e6769
If $t = 4u$, which o ? A) $8u$ B) $2u$ C) u D) $\frac{1}{2}u$	f the following is equivalent to 2t		y is equivalent to the ratio 12 to t . 5, what is the value of y in terms of
#33	ID: d7a3179d	#36	ID: 4e375d1f
How many <u>yards</u> (1 yard = 36 ind	s are equivalent to 1,116 inches?		eters are equivalent to 2,300 (100 centimeters = 1 meter)
#34	ID: 4347a032	A) 0.043 B) 23	
	boons are equivalent to 44 teaspoons = 1 tablespoon)	C) 2,400 D) 230,000	