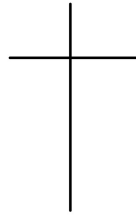# Scavenger Hunt: Unit 4 review

Start at 1 and find answer on another square. Do that question next.

$$y = kx \rightarrow k = \frac{y}{x}$$

Task Card 1 Answer: 3

An automobile travels 54 miles on 3 gallons of gasoline. At this rate, how many miles will it travel with 7 gallons of gasoline?
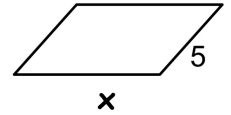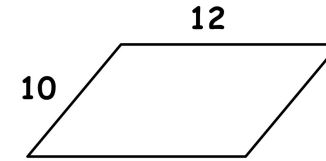

Task Card 2 Answer: 11.5

New Task:
The polygons are similar. Solve for x.

12
10
5
x

Task Card 3 Answer: B and F

What is the constant of proportionality?

Number of Cupcakes (x)	Cost (y)
4	$16
5	$20
7	$28
8	$32

Task Card 4 Answer: k= 9

David made a scale drawing of his family room. He used the scale 1.5 cm = 2 m. If the family room is 9 cm wide in the drawing, how wide is the actual family room?

Task Card 5 Answer: 6

What is the constant of proportionality?

A family of six paid $54 for concert tickets and a family of 9 paid $81 for the same tickets.

People (x)	0	2	6	10
Total Cost (y)				

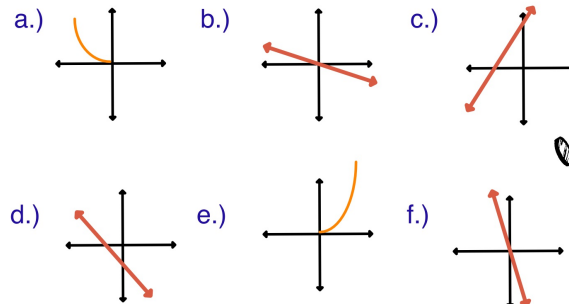---

Task Card 6 Answer: k= 4

Kevin measured the dimensions of his cabin property and made a scale drawing. The scale he used was 1 in = 4 yards. The actual length of his property is 46 yards. How long is his property in the drawing?

Task Card 7 Answer: 126

Which graphs which show proportional relationships.

a.)   b.)   c.)

d.)   e.)   f.)

Task Card 8 Answer: 12

What is the missing number?

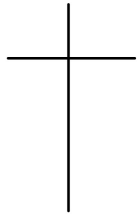| x	y
2	3
5	
7	10.5
8	12
10	15
11	16.5
12	18

Task Card 9 — Answer: y = 5x

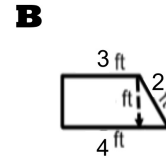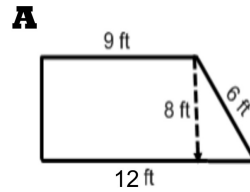An train travels 425 miles every 5 hours. At this rate, how long with it take to travel 935 miles?

Task Card 10 — Answer: 1.5

New Task:

Use the diagram to answer the following questions.

A

9 ft

8 ft · 6 ft

12 ft

B

3 ft

ft · 2 ft

4 ft

What is the scale factor from Trapezoid A to Trapezoid B?

Task Card 11 — Answer: 1/3

What is the missing number?

Hours	4	5	6	7	8
Pay	$48		$72	$84	$96

Task Card 12 — Answer: y = 66x

New Task:

What is the scale factor from A to B?

B 2 ft

3 ft.

A

10 ft.

15 ft.
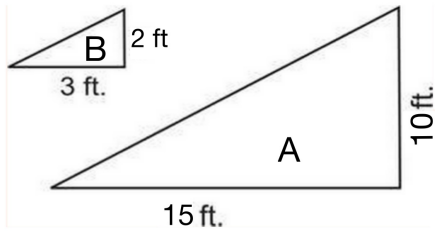
Task Card 13 — Answer: 60

What is the equation?

On a trip to Wisconsin, your family drove 132 miles in 2 hours and 330 miles in 5 hours.
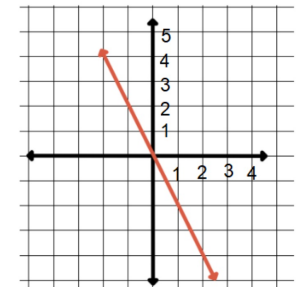
Hours (x)	0	1	2	4	5
Total Miles (y)					

Task Card 14 — Answer: 11

What is the equation is represented by the situation on the graph?

x	y
1	
2	
0	
-1	
-2	

Task Card 15 — Answer: y = -2x

New Task:

What is the scale factor from A to B.

10
15
16 A
24 B
15
15
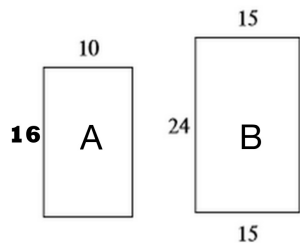
Task Card 16 — Answer: 7.5

What is the equation is represented by the situation on the graph?

x	y
1	
2	
3	
4	
5	

Water

Days
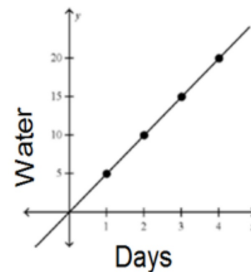
Task Card 17 — Answer: 0.2 or 1/5

New Task:

The actual distance between two cities is 450 miles. The scale of the map is 1 in:150 miles. How far apart are they on the map?