7th Benchmark 2 Study Guide

Question 1 . MGSE7.EE.3
Solve the following equation. -5x + 3 = -22

Question 2 . **MGSE7.EE.3**
Solve the following equation. 11x + 3 = 47

Question 3 . MGSE7.EE.4a
In the basketball game, Tom scored 5 points less than twice the number of points Jacob scored. Tom scored 21 points. How many points did Jacob score?

Question 4 . MGSE7.EE.4b
Graph the solution of the inequality, $b + 9 \geq -1$?

Question 5 . MGSE.EE.4
Jerry is four times as old as Pam. Pam is 10 years old. Write an equation to show the age of Jerry.

Question 6 . MGSE7.EE.4c
Megan earned $46.25 working for her father. If she now has $98.45, how much money did she begin with?

Question 7 . MGSE7.RP.1

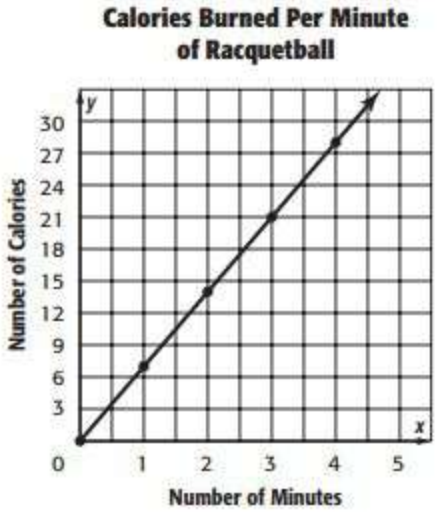
FUEL A small airplane used $5\frac{2}{3}$ gallons of fuel to fly a 2 hour trip. How many gallons were used each hour?

Question 8 . MGSE7.RP.2
If it takes 9 gallons of gas to drive 270 miles, how many miles can be driven using 15 gallons of gas?

Question 9 . MGSE7.RP.2 Bart can type 425 words in 5 minutes. At this rate, how many words can he type in 18 minutes?

Question 10 . MGSE.7.RP.2a

Does the graph below show a proportional relationship? Explain why or why not.



Question 11 .MGSE7.RP.2a

Does the table below represent a proportional relationship? Explain why or why not.

Time (min)	0	1	2	3	4
Calories Burned	0	7	14	21	28

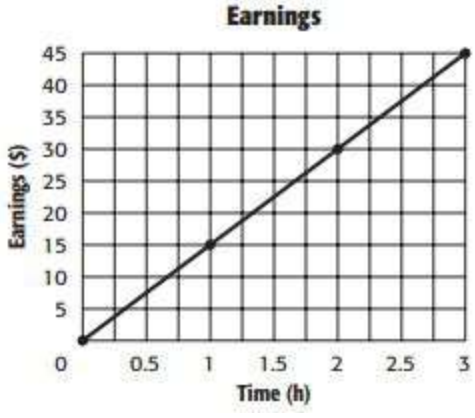
Question 12 . MSG7.RP.2b

What is the constant of proportionality of the table below?

Popcorn	
Bags of Popcorn	Cost ($)
0	0
1	4
2	8
3	12
4	16

Question 13 . MGSE7.RP.2b

What is the constant of proportionality of the line?



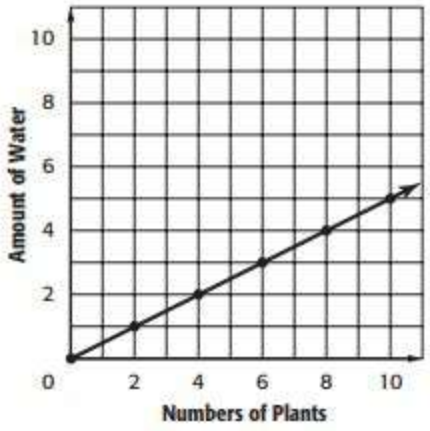
Question 14 . MGSE7.RP.2b

At Tim's boy scout camp, all campers pitched 360 tents in an hour. What is the constant of proportionality in tents per minute?

Question 15. MGSE7.RP.2c Look at the following equation. y = -25x. What is the constant of proportionality?

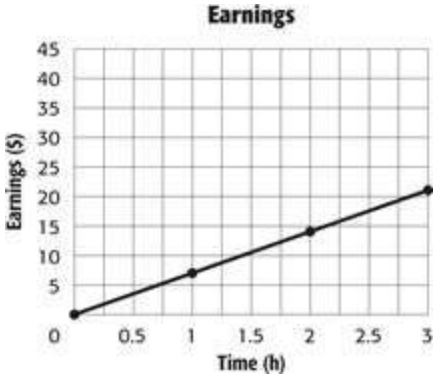
Question 16 . MGSE7.RP.2d

Look at the graph below. What does the point (4,2) mean?



Question 17. MGSE7.RP.2d

The graph shows the amount of money Amy earns each hour she works. What is the unit rate?



Question 18 .MGSE7.RP.3

David has lunch at a restaurant. If his bill was $22.00 and David wants to leave a 11% tip, what is the total amount of the bill?

Question 19 .MGSE7.RP.3
What is the simple interest paid $1,500, 4%, 2 years

Question 20 . MGSE7.RP.3

What is the total cost to the nearest cent?
$750 drum set; 10% markup

Question 21. MGSE7.RP.3 Mr. Palmer bought a camera that was originally priced at $355. He received a 20% discount. What is the sale price of the camera?

Question 22 . MGSE7.G.1 On a map, the scale is 1 inch = 145 miles. What is the actual distance between the two cities if the map distance is 5 inches?

Question 23 . MGSE7.G.1 On a map, the scale is 1 inch = 75 miles. What is the actual distance between the two cities if the map distance is 6 inches?

Question 24 . MGSE7.G.2 A triangle has 3 angles that each measure 60 degrees. What kind of triangle is it?

Question 25 . MGSE7.G.2
How many triangles exist with the given angle measures? 60 degrees, 90 degrees, 30 degrees

Question 26 . **MGSE7.EE.3Write and solve an equation** for the following situation: Mindy buys a pencil for $1 and 7 packs of crayons. She spent a total of $15. How much did each pack of crayons cost?

Question 27 . MGSE7.RP.1

DRIVING A truck driver drove 120 miles in $1\frac{3}{4}$ hours. What is the speed of the truck in miles per hour?

Question 28 .MGSE7.RP.1

RUNNING Johnathan can jog $3\frac{2}{5}$ miles in $\frac{7}{8}$ hour. Find his average speed in miles per hour.

Question 29 .MGSE7.EE.4

There is space for 150 people to ride on a plane. Currently, 46 people are on the plane. Write and solve an inequality to find how many more people can get on the plane.

Question 30 .MGSE7.EE.4 $x + 3.9 = -5.8$

Question 31 .MGSE7.EE.4c Paul has $186 in his checking account. He earns $42 a week mowing lawns. If Paul saves all of his earnings, after how many weeks will he have $690 saved?