Percent & Proportions Test Review

1. What is 25% of 150?

2. 70 is 10% of what #?

3. What is 5% of 240?

4. 110 is what % of 100?

5. What is 140% of 80?

6. There are 24 students in Jake's class who have brown eyes. This represents the 75% of the students in the class. How many students are there in Jake's class?

    A 36   B 30   C 18   D 32

7. There were 72 light bulbs delivered to the hardware store last week. If 12.5% of the light bulbs were delivered on Monday, how many light bulbs were delivered on Monday?
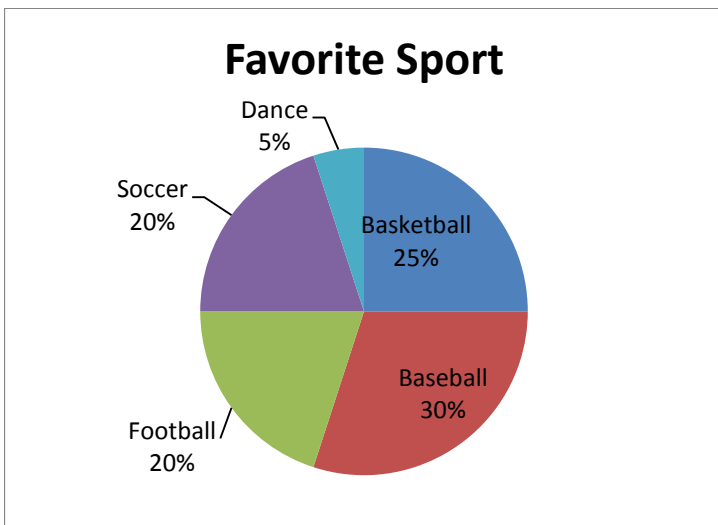
    F 24   G 9   H 3.5   J 900

8. The graph represents the favorite sports of the total 100 students at Bowie Middle School. What statement is best supported by the graph?

Favorite Sport

Dance 5%
Soccer 20%
Basketball 25%
Baseball 30%
Football 20%

A More students like soccer better than basketball and dance combined.

B Exactly 200 students say football is their favorite sport.

C Less than 250 students say baseball is their favorite sport.

D The difference between the number of students who say soccer is their favorite and the number who say basketball is their favorite is only 5 students.

9. Justin is buying a cell phone that has a regular price of $149. The cell phone is on sale for 15% off the regular price. What is the **sale price** of the cell phone?

10. In the Stoneridge apartment complex, 35% of the apartments have one bedroom. If there are 49 one-bedroom apartments, what is the **total number** of apartments at Stoneridge?

11. Ian earned $70 babysitting and wants to buy a skateboard with the money he earned. The price of the skateboard is $68 and the sales tax is 8%. How much more will he need to buy the skateboard?

12. The table below shows the price of sandwiches at a local deli. Samantha orders a roast beef sandwich, and Derrick orders a chicken wrap. Tax is 6% and they want to leave a 20% tip. Use estimation to determine how much the total will be.

Sandwich	Cost
Turkey Panini	$7.89
Roast Beef	$7.49
Cheese Melt	$6.29
Chicken Wrap	$6.59

A $ 15   B $ 19
C $ 25   D $ 16

13. On Friday, Alyssa's tomato plant was 6.2 inches tall. One week later, it's size had increased by 78%. How tall was the plant after one week?

A 4.836 in   B .78 inches   C 11.036   D 483.6 inches

14. You go to the mall and want to buy a shirt for $14.50 and a pair of jeans for $35. There is a 7.5% sales tax rate on clothing. If you give the sales associate $55, how much change will you receive?

15. Find the store's mark-up rate on a $60 jacket that sells for $75.

Proportion Review:

16. Teresa is building a scale model of the JPMorgan Tower in Houston. In her scale model, 1.5 inches represents 61 meters. Since the actual building is 305 meters tall, what height should Teresa build the model?
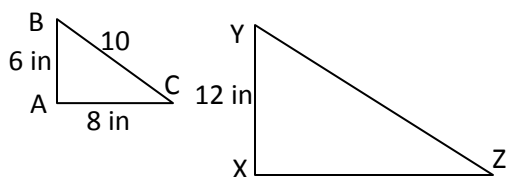
      A 10.5 inches   B 9 inches   C 5 inches   D 7.5 inches

17. Jorge bought 3.75 pounds of jalapeno peppers from the farmer's market. How many ounces of peppers did Jorge buy?

18. Sophie can read 40 pages in 20 minutes. At this rate, how long will it take to read 480 pages?

      A 8 hours   B 240 hours   C 4 hours   D 160 hours

19. Triangle ABC is similar to triangle XYZ.
Find the perimeter of triangle XYZ.

A   12 inches   B   18 inches
C   24 inches   D   48 inches

20. Are these ratios proportional? $\dfrac{600\ miles}{20\ minutes} = \dfrac{30\ miles}{1\ hour}$

A Yes   B No