Chapter 5 Test Review Percents

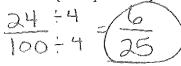
SCORE

1. What is 5.3% written as a decimal?





2. What is 24% written as a fraction (in simplest form)?

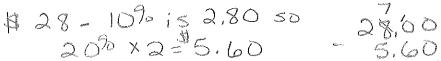


3. A restaurant surveyed 280 people about their favorite side dish. If 40% of the people chose macaroni and cheese, how many people chose macaroni and cheese?

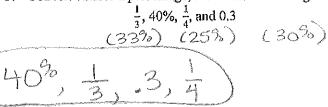
$$408 = .4 \times 280$$

* can us 10^{9} benchmark = $2.8 \times H = 11.2$ people 4. The original price of a DVD is \$28. The sale price is 20% off the original price. What

is the sale price for the DVD?



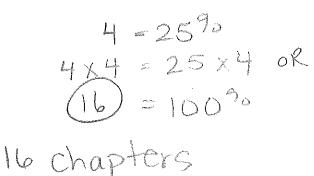
5. Convert each to a percentage, then list them from greatest to least percent:



6. What is 232% written as a mixed number?

$$2\frac{32}{106} + 2\frac{8}{25}$$

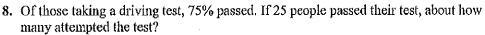
7. Ward finished 4 chapters in his book. This is 25% of the chapters in the book. How many chapters are in the book?



$$\frac{25}{100} = \frac{4}{x}$$

$$\frac{400 = 25x}{25}$$

$$\frac{25}{(x = 16)}$$



$$\frac{76}{100} = \frac{25}{x} \left(x = 33.\overline{3} \right)$$
 $(x = 33.\overline{3})$
 $(x = 33.\overline{3})$

9. What is
$$7\frac{3}{25}$$
 written as a percent?

$$\frac{3}{36} = \frac{12}{100} + 7 = (712\%)$$

10. Carley got a 82% on her first english test, a
$$\frac{22}{25}$$
 on her second test, and a 0.86 on her third test. Arrange the scores from least to greatest.

Use a percent proportion to find each answer.

$$\frac{40}{100} = \frac{x}{70}$$
1001 x = 28
$$x = 28$$

14. What is
$$\frac{13}{2}$$
 written as a percent?

14. What is
$$\frac{13}{20}$$
 written as a percent?

$$\frac{13 \times 5}{20 \times 5} = 65$$

$$\frac{5}{100} = 659$$

15. During a baseball tournament, Bernard had 70 at bats and had 21 hits. He says he had a hit 30% of his at bats. Is Bernard correct? Explain why or why not.

$$\frac{30}{100} = \frac{21}{70}$$

$$21 = 21 \text{ yes, he is correct. See}$$
Proportion

16. The original price of a movie ticket is \$12. The sale price is 40% off the original price. What is the sale price of the movie ticket?

Use a problem-solving model to solve each problem.

17. Marianne's basketball team won 75% of their games last season. If the teams played 20 games, how many games did the teams lose? Use a problem-solving model to solve.

18. An archer practiced shooting arrows at a target for four weeks. The table shows the archer's success rates in hitting the bullseye. In which week did the archer have the highest success rate?

Week	Bullseyes	
1	10 out of 25	= 40%
2	60%	
3	0.7	-70%
4	15 ¥5 75 20 ¥5 100	= 75%

(week 4 = 16%)