

9.2 Percents

NOTES

Math 7

Write your
questions here!



Mr. Brust sleeps 18 of the 24 hours on Saturday. What part of a whole 100% is Mr. Brust sleeping?

$$\frac{\textit{Part}}{\textit{Whole}} = \frac{\textit{Part}}{\textit{Whole}}$$

$$\frac{\textit{Part}}{\textit{Whole}} = \frac{\textit{Part}}{\textit{Whole}}$$

$$\frac{\%}{100} = \frac{\textit{IS}}{\textit{OF}}$$

Ex 1: What is 12% of 54?

Ex 2: What percent of 36 is 52?

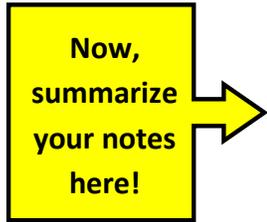
Ex 3: 78 is 45% of what number?

YOU TRY: What percent is 12 of 40?

Ex 4: Sigonella won 10 different European Championships last year which was 62.5% of all possible titles. How many titles were given out last year?

You try! Mr. Sullivan makes \$24,000 a year working at the school. Same say he's overpaid. He pays \$7,700 in taxes. What percent of his income does he pay in taxes?

SUMMARY:



9.2 Percents

PRACTICE

Directions: Set up a proportion and then solve it. Round to the nearest hundredth.

1) What percent of 54 is 40?

2) 68 is 35% of what number?

3) 168% of 80 is what?

4) 88 is what percent of 105?

5) What is 15% of 90?

6) 40 is 150% of what number?

Directions: Set up a proportion for the following. Then solve your proportion. Round to the nearest hundredth.

7) Before going home for the weekend Mr. Brust grades 50 of the 65 math tests. What percent of the tests did he grade before going home?

Directions: Set up a proportion for the following. Then solve your proportion. Round to the nearest hundredth.

8) Bean is a 45% free throw shooter. About how many free throws did he take if he made 9 in the game?

9) Sully wants to buy the latest iPhone for \$1199. He knows that he'll have to pay 6% sales tax on the phone. How much tax will he pay?

10) Mr. Kelly is really good at guessing on multiple choice tests. He can generally guess with 35% accuracy. How many questions will he get right if there are 60 questions on the test?

9.2 Percents

WRAP UP

Directions: Set up a proportion and then solve it. Round to the nearest hundredth.

1) 115% of 80 is what number?

Directions: Set up a proportion for the following. Then solve your proportion. Round to the nearest hundredth.

2) A construction crew has 40 members on it. One day 28 members showed up. What percent of the crew was present?

HOW MUCH DO YOU REALLY PAY?

3) Mr. Sullivan is visiting family in Ohio during the summer and he decides to buy a new pair Beats Solo Pro headphones for \$299.95. Ohio charges 5.75% sales tax on items. How much will he actually pay?

a) First: What is 5.75% of \$299.95?

b) Fill in the boxes to determine how much he pays.

$$\boxed{} + \boxed{} = \boxed{}$$

Original Price Amount of Tax Paid Total Price

4) Mr. Kelly only buys when there is a sale. He finds the same headphones Mr. Sullivan buys on Amazon (no tax) when it was on sale for 22% off.

a) First: What is 22% of \$299.95?

b) Fill in the boxes to determine how much he pays.

$$\boxed{} - \boxed{} = \boxed{}$$

Original Price Amount of Sale Total Price

EXIT TICKET –

How much did Mr. Brust for his car if he paid \$14,500 but got it on sale for 15% off?