

Name: Key

Block:

### Review for Assessment 7 - Accelerated 6<sup>th</sup> Grade

Calculators Permitted on all Questions

For ALL questions, show how you determined your answer.

**6.RP.3c**

1. Ms. Berman has 110 students, but kicks out 30% of them. How many students does Ms. Berman have left?

$$\begin{aligned} \% \cdot W &= P \\ 0.30 \cdot 110 &= P \\ 33 &= P \end{aligned}$$

$$\begin{array}{r} 110 \\ - 33 \\ \hline \end{array}$$

77 students

2. John answered 31 out of 35 questions correctly on his math test. What percent of the questions did he answer correctly?

$$\begin{aligned} \% \cdot W &= P \\ \% \cdot 35 &= 31 \\ \% &= 0.886 \end{aligned}$$

88.6%

3. Michael Jordan's free throw percentage was a 90%. He made 27 shots. How many total shots did he take?

$$\begin{aligned} \% \cdot W &= P \\ 0.90 \cdot W &= 27 \\ W &= 30 \end{aligned}$$

30 shots

4. Mya bought a hoodie that was on sale for 25% less than the original price. The original price was \$40 more than the sale price (*meaning: it was discounted by \$40*). What was the original price?

$$\begin{aligned} \% \cdot W &= P \\ 0.25 \cdot W &= 40 \\ W &= 160 \end{aligned}$$

\$160

5. You want to buy a couch that costs \$1,500 and see that it will be on sale for the next week. If the sale requires you to pay only 80% of the purchase price, how much will you have to pay if you buy it on sale?

$$\begin{aligned} \% \cdot W &= P \\ 0.80 \cdot 1500 &= P \\ 1200 &= P \end{aligned}$$

\$1,200

6. You go to dinner and receive the bill for \$38.00 and want to tip your waiter 18%.

**Part A:** How much tip should you leave?

$$\begin{aligned} \% \cdot W &= P \\ 0.18 \cdot 38 &= P \\ 6.84 &= P \end{aligned}$$

\$6.84

**Part B:** What is the total cost for the dinner, including tip?

$$\begin{array}{r} 38.00 \\ + 6.84 \\ \hline 44.84 \end{array}$$

\$44.84

7. 200 people visited Plumpton Park Zoo in the spring. The number of people visited increased by 35% in the summer. How many people visited the zoo in the summer?

$$\begin{aligned} \% \cdot W &= P \\ 0.35 \cdot 200 &= P \\ 70 &= P \end{aligned}$$

$$\begin{array}{r} 200 \\ + 70 \\ \hline 270 \end{array}$$

270 people

8. Ms. Berman brought 50 pieces of candy to share with her students. The students ate 10 pieces of candy.

**Part A:** What percent of the candy was eaten?

$$\begin{aligned} \% \cdot W &= P \\ \% \cdot 50 &= 10 \end{aligned}$$

20%

**Part B:** What percent of the candy is left?

$$100 - 20 = 80$$

80%

9. Mr. Huff brought 80 pieces of candy to share with her students. The students ate 60 pieces of candy.

**Part A:** What percent of the candy was eaten?

$$\begin{aligned} \% \cdot W &= P \\ \% \cdot 80 &= 60 \end{aligned}$$

75%

**Part B:** What percent of the candy is left?

$$100 - 75 = 25$$

25%

10. Kaylynn went shopping and wants to buy clothing that totals \$42.65 before tax.

**Part A:** If the sales tax is 8%, how much will she have to pay in tax?

$$\begin{aligned} \% \cdot W &= P \\ 0.08 \cdot 42.65 &= P \end{aligned}$$

\$3.41

**Part B:** What is the total that she owes?

$$\begin{array}{r} 42.65 \\ + 3.41 \\ \hline 46.06 \end{array}$$

\$46.06

11. Convert  $\frac{11}{20}$  to a decimal and a percent.

Decimal: 0.55

Percent: 55%

12. Convert 30% to a decimal and a fraction:

Decimal: 0.3  
(or 0.30)

Fraction:  $\frac{3}{10}$

13. Convert 0.941 to a fraction and a percent:

Fraction:  $\frac{941}{1000}$

Percent: 94.1%