

Name: KEY
Chapter 8 Practice Quiz (Sections 6 & 7)
Mr. McAusland -6th Math
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Solve and Show Work

- 1) There are 3 facedown cards for every faceup card. If 4 of the cards are faceup, how many cards are facedown?

$$\frac{D}{U} = \frac{3}{1} \begin{matrix} \times 4 \\ \rightarrow \end{matrix} = \frac{12}{4}$$

12 CARDS ARE FACEDOWN

- 2) You have 12 cards. One out of every 3 cards is faceup. The rest are facedown. How many cards are faceup?

$$\frac{U}{\text{TOT}} = \frac{1}{3} \begin{matrix} \cdot 4 \\ \cdot 4 \end{matrix} = \frac{4}{12}$$

4 CARDS ARE FACEUP

- 3) There are 5 facedown cards for every 4 faceup cards. If 15 of the cards are facedown, how many cards are faceup?

$$\frac{D}{U} = \frac{5}{4} \begin{matrix} \cdot 3 \\ \cdot 3 \end{matrix} = \frac{15}{12}$$

12 CARDS ARE FACEUP

4) Two out of every 7 cards are faceup. If 8 cards are faceup, how many cards are there in all?

$$\frac{U}{T} = \frac{2 \cdot 4}{7 \cdot 4} = \frac{8}{\quad}$$

28 CARDS IN ALL

5) There are 4 faceup cards for every 5 facedown. If there are ~~21~~²⁷ cards in all, how many cards are faceup?

$$\frac{U}{D+U} = \frac{4 \cdot 3}{5 \cdot 3} = \frac{12}{27}$$

12 CARDS FACEUP

6) You have 6 faceup cards and 1 facedown cards. You add some facedown cards so 1 in every 4 cards is faceup. How many cards are there now?

~~$$\frac{U}{D+U} = \frac{6}{1+6} = \frac{6}{7}$$~~

$$\frac{U}{T} = \frac{1 \cdot 6}{4 \cdot 6} = \frac{6}{24}$$

24 CARDS TOTAL

7) You have 7 faceup cards and 16 facedown cards. You add some faceup cards so 3 out of every 5 cards are faceup. How many cards are there now?

$$\begin{array}{r} \text{D} \\ \hline \text{T} \\ \hline \text{C} \end{array} \quad \begin{array}{r} 3 \\ \hline 5 \end{array} \begin{array}{l} \cdot 4 \\ = \\ \hline 16 \end{array}$$

20 CARDS NOW

8) A spinner lands on white 5 times for every 7 times it lands on black. How many times does it land on black if it lands on white 15 times?

$$\frac{W}{B} = \frac{5 \cdot 3}{7 \cdot 3} = \frac{15}{21}$$

21 TIMES ON BLACK

9) In a recent game, the Kildonan School hockey team took 20 shots on net and made 3 of them. What percent of its shots did the team make?

$$\frac{G}{A} = \frac{3 \cdot 5}{20 \cdot 5} = \frac{15}{100}$$

15% OF THE SHOTS

10) The team also took ~~12~~²⁵ corner kicks and were able to score on 20% of them. How many goals did the team make on corner kicks?

$$\frac{6}{25} \div 4 = \frac{20}{100}$$

5 GOALS ON CORNER KICKS

11) Billy has a bag of marbles. Five of the marbles are blue and 3 were green. What percent of the marbles were blue?

$$\frac{B}{G} = \frac{5}{3} = \frac{\quad}{100}$$

$$\frac{5}{8} = \frac{p}{100}$$

$$8p = 5 \cdot 100$$

$$\frac{8p}{8} = \frac{500}{8}$$

$$p = 62.5$$

62.5% WERE BLUE

12) The 8 boys in Mr. Mac's class make up 32% of the class. How many students are in the class?

$$\frac{8}{t} \div 4 = \frac{32}{100}$$

$$t = 25$$

25 STUDENTS IN THE CLASS

13) 20 is what percent of 50?

$$\frac{20}{50} = \frac{P}{100}$$
$$\frac{20 \cdot 2}{50 \cdot 2} = \frac{P}{100}$$
$$\frac{40}{100} = \frac{P}{100}$$

40%

14) 32 is what percent of 40?

$$\frac{32}{40} = \frac{P}{100}$$
$$\frac{8 \cdot 10}{10 \cdot 10} = \frac{P}{100}$$
$$\frac{80}{100} = \frac{P}{100}$$

80%

15) 15 is what percent of 75?

$$\frac{15}{75} = \frac{P}{100}$$

20%

$$75P = 15 \cdot 100$$
$$\frac{75P}{75} = \frac{1500}{75}$$
$$P = 20$$