

## Second Six Weeks Test Review

1. Jack has 42 baseball cards. Of these cards,  $\frac{5}{6}$  of them are collectable cards. How many cards are NOT collectable cards?

$\frac{5}{6} \leftarrow$  collectable

$\frac{1}{6} \leftarrow$  NOT collectable

$$\frac{1}{6} \times 42 = \frac{1}{\cancel{6}} \times \frac{42^{\cancel{7}}}{1} = \frac{7}{1} = 7 \text{ non-collectable cards}$$

2. Jackie uses  $2\frac{1}{4}$  cups of flour to bake a cake. If she wants to make 3 cakes, how much flour will she use?

$$2\frac{1}{4} \times 3 = \frac{9}{4} \times \frac{3}{1} = \frac{27}{4} = \frac{41\cancel{27}}{-24} \frac{6\frac{3}{4}}{3}$$

$6\frac{3}{4}$  cups of flour

3. Eleven shirts for the soccer team cost \$90.75. Based on this information, what factor should n be multiplied by to determine the cost of n shirts in dollars and cents?

$$\begin{array}{r} 8.25 \\ 11 \overline{) 90.75} \\ \underline{-88} \phantom{0} \\ 27 \phantom{0} \\ \underline{-22} \phantom{0} \\ 55 \\ \underline{-55} \\ 0 \end{array}$$

\$8.25 per shirt

8.25

$8.25n = \text{cost of } n \text{ shirts}$

4. There are 80 animals up for adoption at Save Austin Pets.

- $\frac{1}{8}$  of the animals are rabbits  $\frac{1}{8} \times 80 = 10$  rabbits
- $\frac{1}{4}$  of the animals are cats  $\frac{1}{4} \times 80 = 20$  cats
- The remaining animals are dogs.  $\frac{5}{8}$

How many dogs are up for adoption at Save Austin Pets?

of means multiply!

$\frac{1}{8}$  of 80 = 10

$\frac{1}{4}$  of 80 = 20

$\left. \begin{array}{l} 10 + 20 = 30 \\ \text{rabbits} \\ \text{+} \\ \text{cats} \end{array} \right\}$

$80 - 30 = 50$  dogs

50 dogs

5. This week, I ran 5 times. If I continue to exercise at this rate, how many times will I run in 6 weeks?

$$5 \times 6 = 30$$

$$\frac{5 \text{ times}}{1 \text{ wk}} = \frac{x \text{ times}}{6 \text{ wks}}$$

30

6. One kilometer is 0.62 miles. If I run a 5K (5 kilometers) this weekend, how many miles will I run?

$$\frac{1 \text{ km}}{0.62 \text{ mi}} = \frac{5 \text{ km}}{x \text{ mi}}$$

$$\begin{array}{r} 0.62 \\ \times 5 \\ \hline 3.10 \end{array}$$

3.1 miles

7. If Milo can type 480 words in 6 minutes, how long will it take him to type 320 words?

$$\div 80 \left( \frac{480 \text{ w}}{6 \text{ min}} = \frac{320 \text{ w}}{x \text{ min}} \right) \div 80$$

4 min

*\* You can also simplify or cross multiply & divide*

8. Chris paid \$16.38 for 2.1 pounds of shrimp. What is the price per pound of shrimp?

$$\frac{\$16.38}{2.1 \text{ lbs}} = \frac{\$x}{1 \text{ lb}}$$

$$2.1 \overline{)16.38} = 21 \overline{)163.8}$$

$$\begin{array}{r} 7.8 \\ -147 \downarrow \\ \hline 168 \\ -168 \\ \hline 0 \end{array}$$

\$7.80 per lb

9. Frank rode in a cab in New York City for 6 miles.

- Each mile cost \$2.25
- He paid a flat fee of \$4.00 to ride in the cab

What was the total amount that Frank paid for the cab ride?

$$\begin{array}{r} 2.25 \\ \times 6 \\ \hline 13.50 \end{array}$$

for each mile

$$\begin{array}{r} 13.50 \\ + 4.00 \leftarrow \text{flat fee} \\ \hline 17.50 \end{array}$$

\$17.50 for entire cab ride

10. Frank had to paint 40 panels for a play at the school. Of these panels,  $\frac{4}{5}$  are supposed to be painted white. How many panels will NOT be painted white?

$\frac{4}{5} = \text{white}$

$\frac{1}{5} = \text{not white}$

$\frac{1}{5} \times 40 = \frac{40}{5} = 8$

8 panels NOT painted

11. It is  $5\frac{1}{3}$  miles from the school to my house. If I go back and forth to school 4 times during one day, how many miles would I have traveled that day?

$5\frac{1}{3} \times 4$

$\frac{16}{3} \times \frac{4}{1} = \frac{64}{3}$

$3 \overline{)64} = 21\frac{1}{3}$

$21\frac{1}{3}$

12. Blow-Pops are on sale at Bear Day. If Larry bought 14 Blow-Pops and spent \$5.04, how much was the cost of each Blow-Pop?

$14 \overline{)5.04} = .36$

\$0.36 per blow pop

13. There are 90 football players are Bailey.

- $\frac{1}{3}$  of the players will also play basketball.  $\frac{1}{3}$  of 90 = 30
- $\frac{1}{6}$  of the players will also play soccer.  $\frac{1}{6} \times 90 = 15$
- The remaining players will not play a different sport.

How many players will only play football?

$30 + 15 = 45$

$90 - 45 = 45$

45 only play football

OF means MULTIPLY

14. If a plane can travel 900 miles in 2 hours, how many hours will it take to fly 4500 miles?

$$\frac{900 \text{ mi}}{2 \text{ hrs}} = \frac{4500 \text{ mi}}{x \text{ hrs}}$$

(Arrows indicate multiplying both sides by 5)

10 hours

15. Jana had t-shirts made for her friends for Bear Day. She had to pay a \$20 fee for the design and \$6.50 for each shirt. If she had 6 shirts made, what was the total cost of the shirts?

$$6(6.50) + 20 =$$

$$\begin{array}{r} 6.50 \\ \times 6 \\ \hline 39.00 \end{array}$$

$$\begin{array}{r} 39.00 \\ + 20.00 \text{ ← design fee} \\ \hline 59.00 \end{array}$$

\$59.00

↑ cost for 6 shirts

16. John bought 4.2 yards of fabric for his Halloween costume. If he paid \$26.25 for the fabric, what is the price per yard of the fabric?

$$\begin{array}{r} 42 \\ \times 6 \\ \hline 252 \end{array}$$

$$\frac{\$26.25}{4.2 \text{ yards}} = \frac{\$x}{1 \text{ yard}}$$

$$4.2 \overline{) 26.25}$$

$$\begin{array}{r} 6.25 \\ 42 \overline{) 262.50} \\ \underline{252} \phantom{0} \\ 105 \phantom{0} \\ \underline{84} \phantom{0} \\ 210 \\ \underline{210} \\ 0 \end{array}$$

\$6.25 per yard

17. Jim has a piece of yarn that is 30 inches long. One inch is approximately equal to 2.54 centimeters. What is the length of the rope in centimeters?

$$\frac{1 \text{ in}}{2.54 \text{ cm}} = \frac{30 \text{ in}}{x \text{ cm}}$$

$$\begin{array}{r} 2.54 \\ \times 30 \\ \hline 000 \\ 7620 \\ \hline 7620 \end{array}$$

76.2 cm

18. Jim can do 25 jumping jacks in 30 seconds. At this rate, how many jumping jacks would he do in two minutes?

2 min = 120 sec ← change to seconds

$$\frac{25 \text{ jj}}{30 \text{ sec}} = \frac{x \text{ jj}}{120 \text{ sec}}$$

(Arrows indicate multiplying both sides by 4)

100 jumping jacks