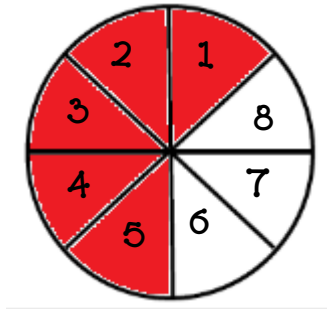


Unit 5: Fractions Part 1 Study Guide Answers for Parents

- 1) Jack made a pie. Together he and Jill ate 5 pieces. Write a fraction that represents the amount eaten?

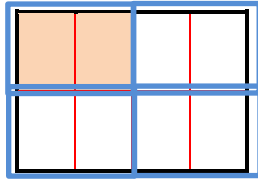
$\frac{5}{8}$ was eaten



- 2) Shade the pie to prove your answer

- 4) A cake is cut into 8 pieces. $\frac{1}{4}$ of the cake has been eaten. What fraction of the cake is left?

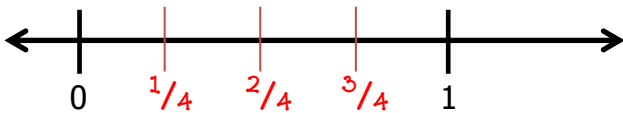
The cake is in 8 pieces, but the blue boxes show how one whole can be changed into 4 pieces and have $\frac{1}{4}$ shaded.



- 5) Prove your answer.

Answer is proven by the model

- 7) Plot the following fractions on the number line below: $\frac{1}{4}$, $\frac{2}{4}$, and $\frac{3}{4}$



- 9) Write 2 fractions that are equivalent to $\frac{2}{3}$?

2 ways to find equivalent fractions

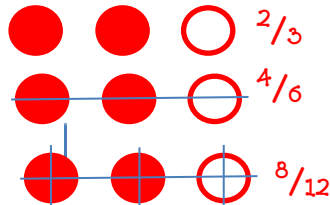
Mathematically:

$$\frac{2}{3} \times \frac{2}{2} = \frac{4}{6}$$

$$\frac{2}{3} \times \frac{3}{3} = \frac{6}{9}$$

$$\frac{2}{3} \times \frac{4}{4} = \frac{8}{12}$$

or Models



- 3) Which picture shows $\frac{3}{5}$?

A)



B)



C is the only one with 3 out of 5 EVEN boxes shaded

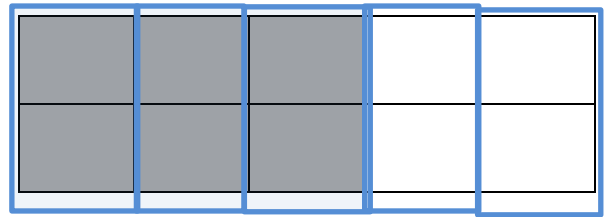
C)



D)

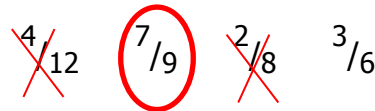


- 6) What are two ways to name the shaded part of the rectangle?



$$\frac{6}{10} = \frac{3}{5}$$

- 8) Circle fractions that are more than $\frac{1}{2}$. Put an X on fractions less than $\frac{1}{2}$.



- 10) Identify the denominator and the numerator in the following fraction..... $\frac{1}{9}$

1 is the numerator
9 is the denominator

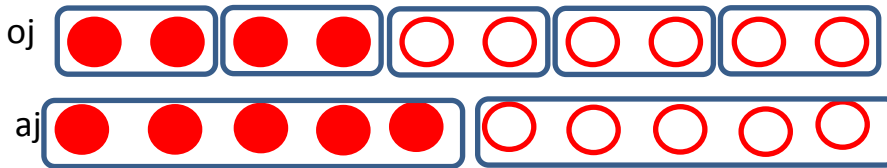
11) Which of the following are improper fractions?

$\frac{3}{4}$ $\frac{6}{4}$ $\frac{7}{9}$ $\frac{15}{5}$

12) Which of the following are proper fractions?

$\frac{3}{4}$ $\frac{6}{4}$ $\frac{7}{9}$ $\frac{15}{5}$

13) There are 10 gallons of juice. Two-fifths are orange juice. One-half is apple juice. Are there more orange juices or apple juices? Explain how you got your solution using pictures and words.



$\frac{2}{5} = \frac{4}{10}$

$\frac{1}{2} = \frac{5}{10}$

$\frac{4}{10} + \frac{5}{10} = \frac{9}{10}$, so $\frac{1}{10}$ is cranberry

There are more gallons of apple juice.

There are 4 gallons of orange juice, 5 gallons of apple juice, and 1 gallon of cranberry juice.

14) Look at the model below. Write a fraction for each picture.

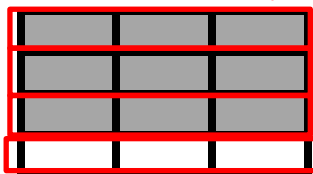
15) Then find the model that shows an equivalent fraction.



$\frac{3}{4}$

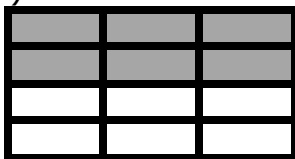
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A) This is the one equivalent fraction



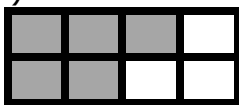
$\frac{9}{12} = \frac{3}{4}$

B)



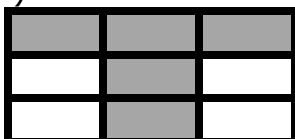
$\frac{6}{12}$

C)



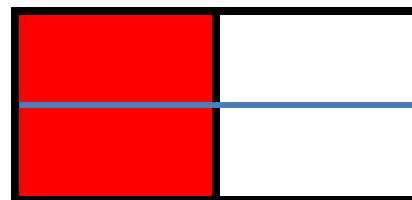
$\frac{5}{8}$

D)

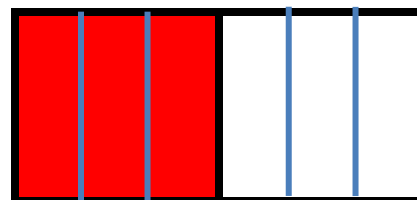
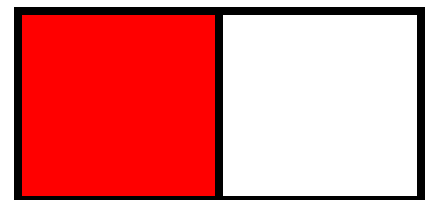


$\frac{5}{9}$

16) Arnie, Kyan, and Vincent each had a rectangular pizza and each ate exactly one-half of their pizza. Arnie ate 2 pieces, Kyan ate 1 piece, and Vincent ate 3 pieces. How is this possible? Explain how you got your answer using **pictures** and **words** Arnie ate 2 pieces



Kyan ate 1 piece, but still  $\frac{1}{2}$  of his pizza



Vincent ate 3 pieces, but still  $\frac{1}{2}$  of his pizza

17) Cameron used 10 colored tiles to make a design in art class.  $\frac{4}{10}$  of her tiles were blue. What is an equivalent fraction for the blue tiles?

A)  $\frac{1}{2}$

C)  $\frac{3}{40}$

B)  $\frac{2}{5}$

D)  $\frac{4}{20}$

18) The fraction strips show  $\frac{6}{8}$ ?



Which is an equivalent fraction?

A)  $\frac{1}{2}$

C)  $\frac{3}{4}$

B)  $\frac{2}{3}$

D)  $\frac{4}{5}$

19) Which symbol makes this sentence true?

$\frac{1}{2}$  \_\_\_\_\_  $\frac{6}{12}$

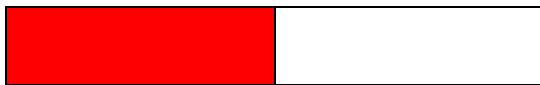
A) >

C) =

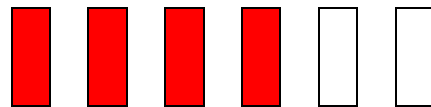
B) <

D) +

20) Shade the diagram to prove your answer.



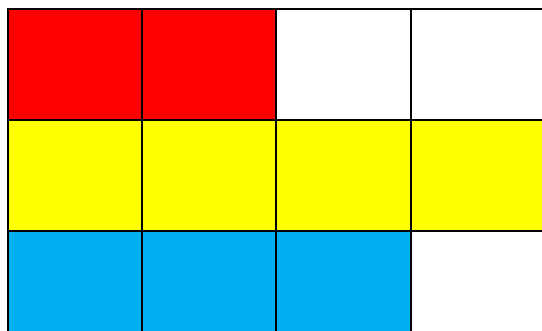
21) Model 2 ways the fraction  $\frac{4}{6}$ .



22) Mara was baking cookies. She used  $\frac{2}{4}$  cup of sugar,  $\frac{4}{4}$  cup of chocolate chips, and  $\frac{3}{4}$  cup of flour. Write these ingredients in order from least to greatest:

$\frac{2}{4}$     $\frac{3}{4}$     $\frac{4}{4}$

23) Explain your answer using pictures and words



$\frac{2}{4}$

$\frac{4}{4}$

$\frac{3}{4}$

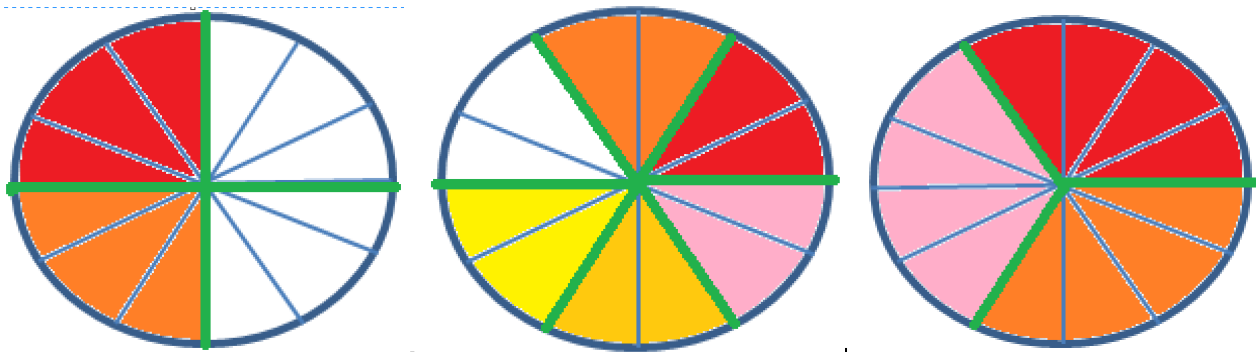
This is the least amount, then  $\frac{3}{4}$  and then  $\frac{4}{4}$ . You can see from the fraction strips, which are the same size, to compare all three.

24) On Super Bowl Sunday, you ordered one pepperoni, one cheese and one hamburger pizza. Each pizza had 12 pieces.  $\frac{2}{4}$  of the pepperoni pizza was eaten,  $\frac{5}{6}$  of the cheese pizza was

eaten, and  $\frac{3}{3}$  of the hamburger pizza was eaten. Which pizza had the most eaten?

- A) Each had the same amount eaten
- B) Pepperoni

- B) Cheese
- C) Hamburger



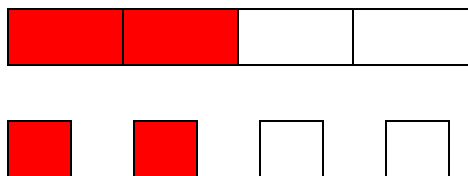
25) In Ann's flower garden,  $\frac{2}{6}$  of the flowers are daisies,  $\frac{1}{6}$  are roses, and the rest are tulips. Draw a representation (picture) of her garden below

26) What fraction of the flowers are tulips?

$\frac{3}{6}$  or  $\frac{1}{2}$



27) Draw models that represent the fraction  $\frac{2}{4}$  two ways. *There are many answers. Here are 2 examples.*

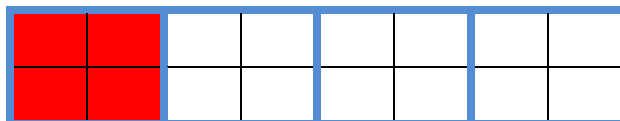


28) An apple pie has 8 slices.  $\frac{2}{4}$  of the pie has been eaten. How many slices of the pie were eaten?

- A) 3
- B) 5
- C) 4
- D) 6



29) A candy bar has 16 sections. 4 sections have nuts. What fraction of the candy bar has nuts?



1)  $\frac{1}{3}$

B)  $\frac{1}{4}$

C)  $\frac{2}{3}$

D)  $\frac{3}{4}$

30) What is the place value of the 6 in **6,025,821**?

**millions**

31) Solve.  **$72 \div (10 - 2) + 15$**

**$72 \div (8) + 15$**

**$9 + 15 = 24$**

32)  $3 \times 783 = (\underline{\mathbf{700}} \times 3) + (80 \times 3) + (3 \times 3)$

33)  $25 \overline{)3,032}$

34) Check the division problem.

*Both traditional and partial shown*

$$\begin{array}{r} \overset{0}{25} \overline{) \overset{0}{3} \overset{1}{0} \overset{2}{3} \overset{1}{2}} \quad r7 \\ \underline{-0} \\ 30 \\ \underline{-25} \\ 53 \\ \underline{-50} \\ 32 \\ \underline{25} \\ 7 \end{array}$$

$$\begin{array}{r} 25 \overline{) 3032} \\ \underline{-2500} \\ 532 \\ \underline{-500} \\ 32 \\ \underline{-25} \\ 7 \end{array}$$

|                 |      |
|-----------------|------|
| $100 \times 25$ | 2500 |
| $20 \times 25$  | 500  |
| $1 \times 25$   | 25   |
| <b>121</b>      |      |

$$\begin{array}{r} \phantom{1} \phantom{2} \phantom{1} \\ \phantom{1} \phantom{2} \phantom{1} \\ \times \phantom{2} \phantom{5} \\ \hline 605 \\ 2420 \\ \hline 3025 \\ + 7 \\ \hline 3032 \end{array}$$

$5 \times 1 = 5$   
 $5 \times 2 = 10$   
 $5 \times 1 = 5 + 1 = 6$   
 $2 \times 1 = 2$   
 $2 \times 2 = 4$   
 $2 \times 1 = 2$

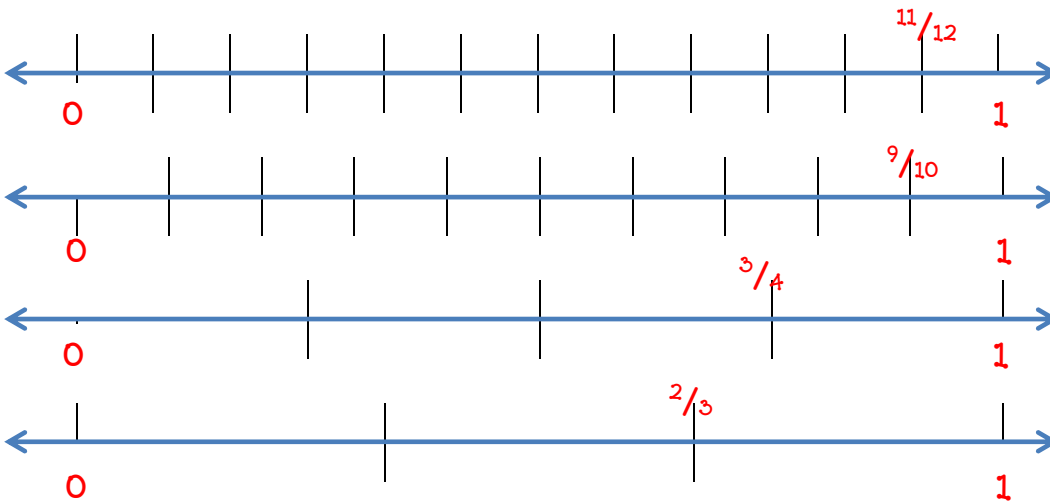
35) Which fraction is closest to one whole? You must Explain or show how you know for full credit.

A)  $\frac{9}{10}$

**B)  $\frac{11}{12}$**

C)  $\frac{3}{4}$

D)  $\frac{2}{3}$



**B is the answer. It is the closest to one whole, based on the number line model. Also because the smaller the pieces are and the more you have, the closest you have to gaining one whole.**