

## Chapter 4 Pretest

SCORE \_\_\_\_\_

Write the letter for the correct answer in the blank at the right of each question.

1. What is  $4\frac{2}{3}$  as a decimal?  $\frac{2}{3} = 0.\bar{6}$   
~~A.~~ 0.46 B. 4.6 C.  $4.\bar{6}$  ~~D.~~  $46.\bar{6}$  1.  $4.\bar{6}$  C
2. What is 0.82 as a fraction in simplest form?  
 F.  $\frac{41}{50}$  G.  $\frac{8}{10}$  H.  $\frac{12}{25}$  I.  $\frac{2}{5}$   $\frac{82}{100} = \frac{41}{50}$  2.  $\frac{41}{50}$  F
3. What is the LCD of  $\frac{11}{7}$  and  $\frac{3}{8}$ ? WHAT IS THE SMALLEST NUMBER BOTH 7 AND 8 GO INTO  
 A. 14 B. 16 C. 33 ~~D.~~ 56 3. 56 D
4. Which symbol makes  $\frac{7}{11} > \frac{3}{5}$  a true sentence?  
 F. > G. < H. = I. + 4. > F
5. Which of the following has the least value?  
 A.  $\frac{13}{15}$  B.  $\frac{7}{8}$  C.  $\frac{2}{3}$  D.  $\frac{3}{4}$  5.  $\frac{2}{3}$  C

$$\frac{7}{11} > \frac{3}{5}$$

$$\frac{35}{55} > \frac{33}{55}$$

For Exercises 6–13, what is the value of each expression in simplest form?

6.  $-\frac{11}{15} + (-\frac{2}{15})$   $\frac{-11+(-2)}{15} = \frac{-13}{15} = -\frac{13}{15}$   
 F.  $-\frac{9}{15}$  ~~G.~~  $-\frac{13}{15}$  H.  $\frac{13}{15}$  I.  $3\frac{1}{3}$  6. \_\_\_\_\_ G
7.  $15\frac{3}{5} - 3\frac{2}{7}$   
 A.  $12\frac{31}{35}$  ~~B.~~  $12\frac{11}{35}$  C.  $11\frac{21}{35}$  D.  $11\frac{1}{35}$  7.  $12\frac{11}{35}$  B
8.  $\frac{2}{3} + \frac{3}{8}$   
 F.  $\frac{1}{6}$  G.  $\frac{5}{24}$  H.  $\frac{5}{11}$  ~~I.~~  $1\frac{1}{24}$  8.  $1\frac{1}{24}$  I
9.  $2\frac{1}{8} + 1\frac{5}{12}$   
~~A.~~  $3\frac{13}{24}$  B.  $3\frac{3}{10}$  C.  $3\frac{1}{4}$  D.  $3\frac{5}{96}$  9.  $3\frac{13}{24}$  A
10.  $2\frac{5}{6} \times \frac{1}{3}$   
 F.  $3\frac{1}{6}$  G.  $1\frac{8}{9}$  H.  $\frac{17}{9}$  ~~I.~~  $\frac{17}{18}$  10.  $\frac{17}{18}$  I

11.  $\frac{9}{10} - \frac{3}{10}$

A.  $\frac{3}{50}$

B.  $\frac{1}{2}$

C.  $\frac{3}{5}$

D.  $\frac{6}{5}$

12.  $10\frac{1}{6} - 4\frac{3}{14}$

F.  $5\frac{29}{21}$

G.  $5\frac{1}{4}$

H.  $6\frac{1}{4}$

I.  $6\frac{20}{21}$

13.  $4\frac{1}{4} \div 2\frac{1}{2}$

A.  $1\frac{5}{8}$

B.  $1\frac{7}{10}$

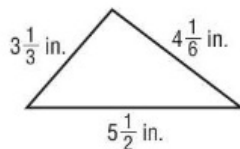
C.  $1\frac{3}{4}$

D.  $6\frac{3}{4}$

14. Usually Ellis rides his bicycle  $5\frac{4}{5}$  miles a day. Today he rode half his usual distance. How far did he ride?

15. A recipe calls for  $1\frac{3}{4}$  cups of flour. If the recipe is tripled, how much flour is needed?

16. Find the perimeter of the figure.



17. Find the area of a rectangle with a length of 3 feet and a width of  $2\frac{7}{8}$  feet.

18. Ayana bought a container of peanuts. She gave  $\frac{1}{4}$  of it to one sister,  $\frac{1}{3}$  to another sister, and she kept the rest for herself. What fraction did she keep?

$$\frac{9-3}{10} = \frac{6}{10} = \frac{3}{5}$$

11.  $\frac{3}{5}$  C

12.  $5\frac{20}{21}$  F

13.  $1\frac{7}{10}$  B

14.  $2\frac{9}{10}$  miles

15. 7 cups

16. 13 in

$$3\frac{1}{3} + 4\frac{1}{6} + 5\frac{1}{2}$$

$$3\frac{2}{6} + 4\frac{1}{6} + 5\frac{3}{6} = 12\frac{6}{6} = 13$$

Area =

17.  $7\frac{3}{4} \text{ ft}^2$

18.  $\frac{5}{12}$  SHE KEPT 5/12 OF THE CONTAINER

17) AREA = L x W  $2\frac{7}{8}$

$$\frac{3}{1} \times \frac{23}{8} = \frac{69}{8} = 7\frac{6}{8} = 7\frac{3}{4}$$

18)  $\frac{1}{4} + \frac{1}{3} + \square = 1$  CONTAINER

$$\frac{1}{4} = \frac{3}{12} \quad \frac{1}{3} = \frac{4}{12}$$

$$\frac{3}{12} + \frac{4}{12} + \square = \frac{12}{12}$$

$$\frac{3+4}{12} = \frac{7}{12} \leftarrow \text{GAVE HER SISTERS}$$

$$\frac{7}{12} + \frac{5}{12} = \frac{12}{12}$$

$$\textcircled{5} \quad \frac{13}{15} \cdot \boxed{\frac{8}{8}} = \frac{104}{120}$$

$$\frac{7}{8} \cdot \boxed{\frac{15}{15}} = \frac{105}{120}$$

$$\frac{2}{3} \cdot \boxed{\frac{40}{40}} = \frac{80}{120} \leftarrow$$

$$\frac{3}{4} \cdot \boxed{\frac{30}{30}} = \frac{90}{120}$$

$$\frac{13}{15}$$

$$\frac{7}{8} = 0.875$$

$$\frac{13}{15} = \frac{13}{15}$$

$$\frac{2}{3} = 0.\bar{6} \leftarrow$$

$$\frac{2}{3} = \frac{10}{15} \leftarrow$$

$$\frac{3}{4} = 0.75$$

$$\textcircled{7} \quad 15\frac{3}{5} - 3\frac{2}{7} = 12\frac{11}{35}$$

$$15 - 3 = 12 \nearrow$$

$$\begin{array}{r} \frac{3}{5} - \frac{2}{7} \\ \times 7 \quad \times 5 \\ \hline \frac{21}{35} - \frac{10}{35} = \frac{11}{35} \end{array}$$

$$\textcircled{8} \quad \frac{2}{3} + \frac{3}{8} = 1\frac{1}{24}$$

$$\frac{16}{24} + \frac{9}{24} = \frac{25}{24} = 1\frac{1}{24}$$

$$\textcircled{9} \quad 2\frac{1}{8} + 1\frac{5}{12} = 3\frac{13}{24}$$

$$2 + 1 = 3$$

$$\begin{array}{cc} \frac{1}{8} & \frac{5}{12} \\ \downarrow & \downarrow \\ \frac{3}{24} & \frac{10}{24} \end{array} \quad \begin{array}{l} \text{PRIME} \\ 1 \times 13 \\ \swarrow \end{array}$$

$$\frac{3}{24} + \frac{10}{24} = \frac{13}{24}$$

$$\textcircled{10} \quad \textcircled{2} \frac{5}{6} \times \frac{1}{3} = \frac{17}{18}$$

$$2 \times 6 + 5$$

$$\frac{17}{6} \times \frac{1}{3} = \frac{17}{18}$$

$$\textcircled{12} \quad 10\frac{1}{6} - 4\frac{3}{14} \rightarrow 10\frac{7}{42} - 4\frac{9}{42} \rightarrow 9\frac{42}{42} + \frac{7}{42} - 4\frac{9}{42} \rightarrow 9\frac{49}{42} - 4\frac{9}{42} = 5\frac{40}{42} \downarrow$$

$$\frac{1}{6} - \frac{3}{14}$$

$$10 = 9 + 1 = 9\frac{42}{42}$$

$$5\frac{20}{21}$$

$$\frac{7}{42} - \frac{9}{42}$$

$$10 - 4 = 6$$

$$10\frac{7}{42} - 4\frac{9}{42} \rightarrow \frac{7}{42} - \frac{9}{42} = -\frac{2}{42}$$

$$6 - \frac{2}{42} = 5\frac{40}{42}$$

$$\textcircled{13} \quad 4\frac{1}{4} \div 2\frac{1}{2} = \frac{17}{4} \div \frac{5}{2} = \frac{17}{4} \cdot \frac{2}{5} = \frac{34}{20} = 1\frac{14}{20} = 1\frac{7}{10}$$

$$\textcircled{14} \quad 5\frac{4}{5} \div 2 = \frac{29}{5} \div \frac{2}{1} = \frac{29}{5} \cdot \frac{1}{2} = \frac{29}{10} = 2\frac{9}{10}$$