

# Unit 7 Fractions & Probability Study Guide

Name \_\_\_\_\_ # \_\_\_\_\_

Date \_\_\_\_\_

Write two equivalent fractions.

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

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

3.  $\frac{6}{10}$

Compare. Write  $>$ ,  $<$ , or  $=$ .

4.  $\frac{1}{3}$  \_\_\_\_\_  $\frac{1}{5}$

5.  $\frac{13}{14}$  \_\_\_\_\_  $\frac{3}{14}$

Compare. Write  $>$ ,  $<$ , or  $=$ .

6.  $\frac{3}{7}$  \_\_\_\_\_  $\frac{6}{14}$

7.  $\frac{5}{16}$  \_\_\_\_\_  $\frac{3}{5}$

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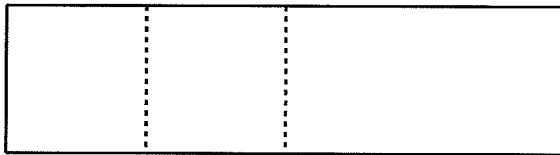
Write the set of fractions in order from smallest to largest.

8.  $\frac{4}{10}, \frac{3}{10}, \frac{9}{10}, \frac{7}{10}, \frac{5}{10}$

9.  $\frac{1}{3}, \frac{1}{14}, \frac{1}{2}, \frac{1}{7}, \frac{1}{8}$

10. If the pattern block trapezoid is the whole, what fraction of the whole is the pattern block triangle?

11. Look at the figure below.



- a. What fraction of the given rectangle are 2 squares? 1 rectangle?
- b. What fraction of the rectangle do 2 squares and 1 rectangle cover?

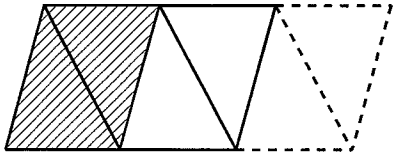
12. If the cube represents  $\frac{1}{10}$ , what represents the unit whole?

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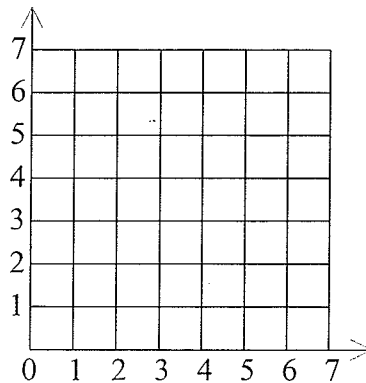
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13. Two triangles are  $\frac{1}{2}$  of the whole. Write the name of the pattern block that is
- a. 1 whole
  - b.  $1\frac{1}{2}$  whole



14. Sara had 8 quarters. She spent  $\frac{1}{4}$  of them on video games.
- a. How many quarters did she spend?
  - b. How many quarters does she have left?
  - c. How much money does she have left?
15. A bag contains 4 blue blocks, 5 purple blocks, 4 green blocks, and 5 yellow blocks. You put your hand in the bag and pull out a block. About what fraction of the time would you expect to get a yellow block?
16. Plot and label each point on the coordinate grid.



A 6, 2  
B  $4\frac{1}{2}$ , 1  
C 2, 1  
D  $1, 3\frac{1}{2}$   
E 3, 5  
F 6, 6

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17. Multiply. Use a paper-and-pencil algorithm of your choice.

$$40 * 65 = \underline{\hspace{2cm}}$$

18. Multiply. Use a paper-and-pencil algorithm of your choice.

$$\underline{\hspace{2cm}} = 54 * 61$$

19. Divide. Use a paper-and-pencil algorithm of your choice.

$$65 \div 2 = \underline{\hspace{2cm}}$$

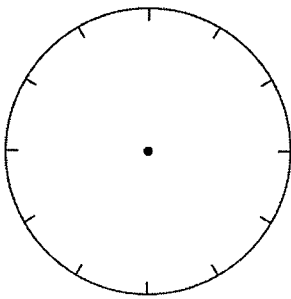
20. Divide. Use a paper-and-pencil algorithm of your choice.

$$7 \overline{)495}$$

21. Which fraction is larger:  $\frac{5}{16}$  or  $\frac{3}{5}$ ? Explain how you know.

22. a. Divide the spinner so that a paper clip will land on R about  $\frac{1}{6}$  of the time and on B about

$\frac{1}{3}$  of the time. The remaining part of the spinner represents Y.



b. About what fraction of the time do you think the clip will land on Y?

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23. Add or subtract. Use pattern blocks.

a. \_\_\_\_\_ =  $\frac{6}{9} + \frac{3}{9}$

b. \_\_\_\_\_ =  $\frac{2}{4} + \frac{2}{4}$

c.  $\frac{3}{4} - \frac{1}{4} =$  \_\_\_\_\_

d.  $\frac{6}{9} - \frac{1}{9} =$  \_\_\_\_\_

24. Solve using pattern blocks. Explain your strategy.

$$\frac{1}{6} + \frac{1}{3}$$

25. It took Denise  $\frac{1}{3}$  of an hour to drive from Zion to Platt and  $\frac{2}{6}$  of an hour to drive from Platt to Rome. To figure out her total driving time, Denise wrote the following number model:

$$\frac{1}{3} + \frac{2}{6} = \frac{3}{9}$$

Do you agree that it took her about  $\frac{3}{9}$  of an hour? Explain your answer.