Unit 7 Study Guide
Fractions & Probability

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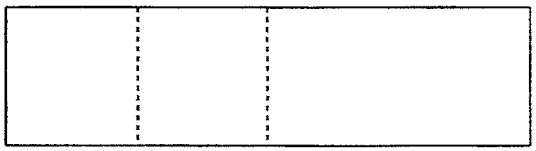
Write the set of fractions in order from smallest to largest.

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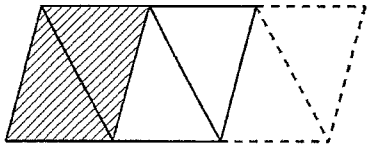
13. Two triangles are $\frac{1}{2}$ of the whole. Write the name of the pattern block that is

    a. 1 whole

    b. $1\frac{1}{2}$ whole

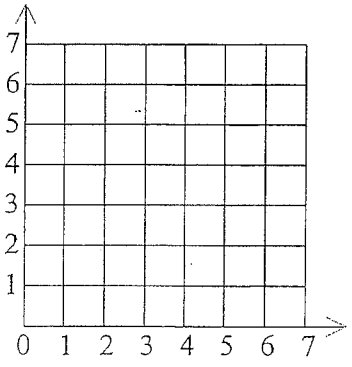


14. Sara had 8 quarters. She spent $\frac{1}{4}$ of them on video games.

    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.
$40 * 65 =$ _____

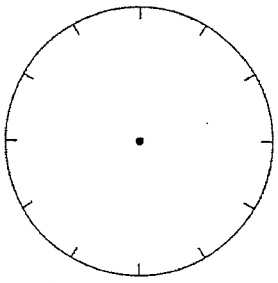
18. Multiply. Use a paper-and-pencil algorithm of your choice.
_____ $= 54 * 61$

19. Divide. Use a paper-and-pencil algorithm of your choice.
$65 \div 2 =$ _____

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.