Unit 7 Fractions & Probability Study Guide Name_AnSwer Key#____ Date____

Write two equivalent fractions.

1.
$$\frac{1}{6} = \frac{2}{12} = \frac{3}{18}$$

2.
$$\frac{3}{5} = \frac{9}{15} = \frac{9}{15}$$

$$3. \ \frac{6}{10} = \frac{12}{20} = \frac{60}{100}$$

Compare. Write >, <, or =.

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

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

Compare. Write >, <, or =.

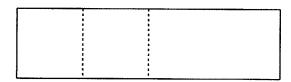
6.
$$\frac{3}{7} - \frac{6}{14}$$

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

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

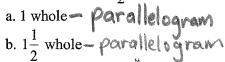
- 8. $\frac{4}{10}$, $\frac{3}{10}$, $\frac{9}{10}$, $\frac{7}{10}$, $\frac{5}{10}$
- 9. $\frac{1}{3}$, $\frac{1}{14}$, $\frac{1}{2}$, $\frac{1}{7}$, $\frac{1}{8}$
- 10. If the pattern block trapezoid is the whole, what fraction of the whole is the pattern block triangle?
- 11. Look at the figure below.

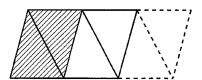


- a. What fraction of the given rectangle are 2 squares? 1 rectangle?
- b. What fraction of the rectangle do 2 squares and 1 rectangle cover? whole
- 12. If the cube represents $\frac{1}{10}$, what represents the unit whole? I'long"



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

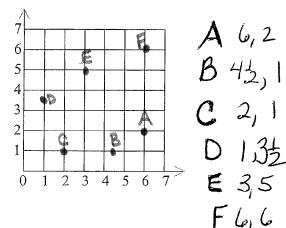




14. Sara had 8 quarters. She spent $\frac{1}{4}$ of them on video games.

a. How many quarters did she spend? Tot \$ = 2 quarters b. How many quarters does she have left? 8 = 2 = 6 quarters c. How much money does she have left? 6 quarters = 1.50

- 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.



23. Add or subtract. Use pattern blocks.

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

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

c.
$$\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$$

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

24. Solve using pattern blocks. Explain your strategy.
$$\frac{1}{6} + \frac{1}{3}$$

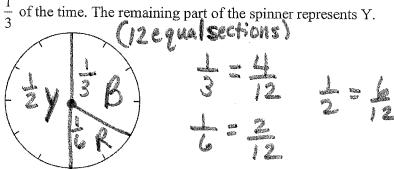
$$\frac{1}{6} + \frac{1}{3}$$

- t=(|triangle)+ ==(|rhombus)
 (====)
- 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. No, she added the unlike denominators. The denominators must be the same and are not added. You only add the numerators.

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- 17. Multiply. Use a paper-and-pencil algorithm of your choice. 40 * 65 = 2.00
- 18. Multiply. Use a paper-and-pencil algorithm of your choice. 3 = 54 * 61
- 19. Divide. Use a paper-and-pencil algorithm of your choice. $65 \div 2 = 2$
- 20. Divide. Use a paper-and-pencil algorithm of your choice. 7)495 70 KS or 70 \$
- 21. Which fraction is larger: $\frac{5}{16}$ or $\frac{3}{5}$? Explain how you know. $\frac{3}{16}$ is larger because it is
- 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



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