Name:_____ Class:_____ Date:_____

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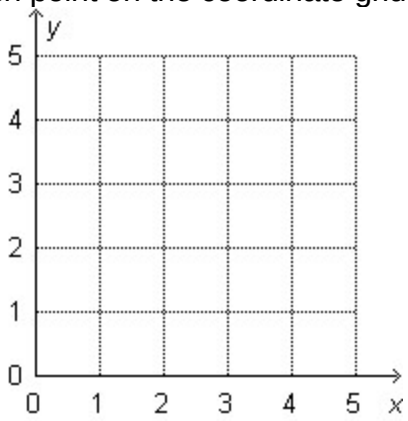
1. **Use pencil and paper to answer the question.**
   Plot and label each point on the coordinate grid.

   A (5,2)
   B (2,2)
   C (0,0)
   D (1,3)
   E (2,4)



2. **Use pencil and paper to answer the question.**
   Write two fractions equivalent to $\frac{3}{4}$.

   _____ _____

3. **Use pencil and paper to answer the question.**
   For each fraction, write two equivalent fractions.

   a. $\frac{1}{4}$ _____ _____

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

   c. $\frac{4}{6}$ _____ _____

4. **Use pencil and paper to answer the question.**
   Write two fractions equivalent to $\frac{2}{16}$.

   _____ _____

5. Write >, <, or = to make a true number sentence.

   $\frac{1}{8}$ _____ $\frac{1}{11}$

6. Write >, <, or = to make a true number sentence.

   $\frac{12}{16}$ _____ $\frac{5}{16}$

7. Write >, <, or = to make a true number sentence.

   $\frac{3}{4}$ _____ $\frac{12}{16}$

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8. **Use pencil and paper to answer the question.**
Write >, <, or = to make each number sentence true.

a. $\frac{1}{4}$ _____ $\frac{1}{7}$ **b.** $\frac{4}{10}$ _____ $\frac{6}{10}$ **c.** $\frac{15}{18}$ _____ $\frac{5}{6}$

9. **Use pencil and paper to answer the question.**
Write the set of fractions in order from smallest to largest.
$\frac{26}{100}, \frac{57}{100}, \frac{75}{100}, \frac{46}{100}, \frac{15}{100}$
_____ _____ _____ _____ _____
smallest largest

10. **Use pencil and paper to answer the question.**
Write each set of fractions in order from smallest to largest.
a. $\frac{3}{8}, \frac{3}{100}, \frac{3}{10}, \frac{3}{4}, \frac{3}{5}$
_____ _____ _____ _____ _____
smallest largest
b. $\frac{3}{8}, \frac{1}{8}, \frac{6}{8}, \frac{7}{8}, \frac{5}{8}$
_____ _____ _____ _____ _____
smallest largest

11. If the yellow hexagon is the whole, what fraction of the whole is 1 red trapezoid?
_____

12. **Use pencil and paper to answer the question.**
Use pattern blocks to help solve the following problems.
If the yellow hexagon is the whole, what fraction of the whole is
a. 1 blue rhombus? _____ **b.** 1 red trapezoid? _____
c. Suppose the blue rhombus is $\frac{2}{3}$ of the whole.
Which pattern block is 1 whole? _____
d. Suppose the green triangle is $\frac{1}{2}$ of the whole.
Which pattern block is 1 whole? _____

13. Suppose the red trapezoid is $\frac{1}{2}$ of the whole.
Which pattern block is 1 whole? _____
a. yellow hexagon b. green triangle c. blue rhombus

14. **Use pencil and paper to answer the question.**
Markus had 48 quarters. He spent $\frac{1}{6}$ of them on used books.
a. How many quarters did he spend? _____ quarters
b. How many quarters did he have left? _____ quarters
c. How much money does he have left? $_____._____

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15. A bag contains
    3 blue blocks
    5 green blocks
    4 yellow blocks, and
    1 purple block.
    You put your hand in the bag and pull out a block.
    About what fraction of the time would you expect to get a purple block? _____

16. Multiply. Use a paper-and-pencil algorithm.

    $49 * 31 =$ _____

17. **Use pencil and paper to answer the question.**

    Multiply. Use paper-and-pencil algorithms of your choice.

    a. _____ $= 86 * 42$ **b.** $47 * 32 =$ _____

18. Divide. Use a paper-and-pencil algorithm.

    $7\overline{)162} =$ _____

    a. 23 R1 b. 23 R6 c. 23 d. 24

19. Divide. Use a paper-and-pencil algorithm.

    $512 \div 7 =$ _____

    a. 73 R1 b. 73 R4 c. 73 d. 74

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20. **Use pencil and paper to answer the question.**
Divide. Use paper-and-pencil algorithms of your choice.

a. $163 \div 6 =$ _____ **b.** $9\overline{)784} =$ _____

21. **Use pencil and paper to answer the question.**

Which fraction is larger: $\frac{4}{5}$ or $\frac{6}{7}$? _____

Explain how you know.

_____

_____

_____

_____

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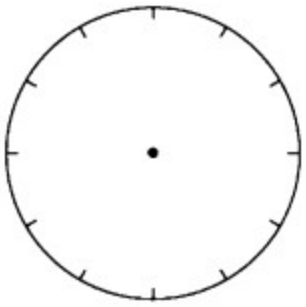
22. **Use pencil and paper to answer the question.**
Make a spinner.

a. Color it so that a paper clip will land on yellow about $\frac{1}{6}$ of the time and on red about $\frac{1}{12}$ of the time. Color the rest blue.



b. About what fraction of the time should you expect the paper clip to land on blue?

_____

23. Add. Use pattern blocks to help you.

$\frac{2}{6} + \frac{1}{6} =$ _____

a. $\frac{1}{2}$ b. $\frac{3}{12}$ c. $\frac{3}{7}$ d. $\frac{3}{13}$

24. Add. Use pattern blocks to help you.

$\frac{1}{2} + \frac{1}{6} =$ _____

a. $\frac{2}{3}$ b. $\frac{2}{8}$ c. $\frac{8}{8}1$ d. $\frac{2}{12}$

25. Subtract. Use pattern blocks to help you.
$\frac{4}{6} - \frac{3}{6} =$ _____

26. **Use pencil and paper to answer the question.**

Add or subtract. Use pattern blocks to help you.

a. $\frac{1}{6} + \frac{1}{6} =$ _____

b. $\frac{1}{6} + \frac{1}{3} =$ _____

c. $\frac{5}{6} - \frac{4}{6} =$ _____

d. $\frac{1}{3} - \frac{1}{6} =$ _____

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27. Subtract. Use pattern blocks to help you.

$\frac{1}{2} - \frac{1}{6} =$ _____

a. $\frac{1}{3}$ b. 0 c. 1 d. $\frac{5}{12}$

28. ✏ **Use pencil and paper to answer the question.**

Maria practiced her piano lesson for $\frac{2}{3}$ of an hour on Monday and $\frac{5}{6}$ of an hour on Tuesday. To figure out her total practice time, Maria wrote the following number model: $\frac{2}{3} + \frac{5}{6} = \frac{7}{9}$.

Do you agree that Maria practiced $\frac{7}{9}$ of an hour? _____ Explain.

_____

_____

_____

_____

29. ✏ **Use pencil and paper to answer the question.**

Queen Barbara's Dilemma

a. Queen Barbara has a problem. She wants to divide her land among her 4 daughters. She wants her oldest to get $\frac{1}{3}$ of the land and her younger daughters to each get $\frac{1}{4}$ of the land.

Can she do it? Explain your answer.

_____

_____

_____

b. After thinking about it, Queen Barbara decides to keep $\frac{1}{2}$ of her land and have her 4 children divide the other $\frac{1}{2}$. She still wants the oldest daughter to get more land than her sisters.

Think of a way to use fractions to divide the land.

Explain your answer.

_____

_____

_____