Summer Math Packet
5th Grade → 6th Grade

NAME _____

Check What You Learned

Understanding Place Value

What is the value of the underlined digit?

83,76<u>4</u> _____ 328.36<u>7</u> _____

Write the digit that is in the given place value.

32.376 – thousandths _____ 3,693.34 – hundreds _____

4.398 – hundredths _____ 3,982.597 – tens _____

Convert these powers of ten to standard numbers.

10^9 _____ 10^5 _____

Multiply or divide by the given power of ten.

532.4 × 100 _____ 12.22 ÷ 10 _____

4.412 × 1,000 _____ 2,934.18 ÷ 100 _____

Write the numbers below in expanded form.

43.436 _____ 3,682.3 _____

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Check What You Learned

Understanding Place Value

Compare each pair of decimals using <, >, or =.

5.113 ____ 5.112	42.882 ____ 43.88	4.6 ____ 4.600
7.295 ____ 72.95	23.54 ____ 23.45	9.563 ____ 9.653

Order the numbers from least to greatest.

5.6, 6.13, 5, 6.723

_____

75.931, 75, 74.2, 74.61

_____

21.1, 20.5, 21.967, 20.35

_____

47.85, 46.793, 47.7, 47.5

_____

Round each number to the indicated place.

7.559 – ones	2.165 – tenths	5.471 – hundredths
_____	_____	_____
3.337 – hundredths	66.34 – ones	9.245 – tenths
_____	_____	_____

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*Show your work. Circle your final answer.

Add, subtract, multiply, or divide (use remainders if necessary.)

$$\begin{array}{r} 275 \\ \times\ 56 \\ \hline \end{array} \qquad \begin{array}{r} 312 \\ \times\ 9 \\ \hline \end{array} \qquad \begin{array}{r} 1717 \\ \times\ 34 \\ \hline \end{array} \qquad \begin{array}{r} 5806 \\ \times\ 42 \\ \hline \end{array}$$

$$8\overline{)72} \qquad 19\overline{)384} \qquad 52\overline{)6147} \qquad 8\overline{)1352}$$

$$\begin{array}{r} 5.73 \\ 0.21 \\ +\ 1.6 \\ \hline \end{array} \qquad \begin{array}{r} 28.30 \\ 1.07 \\ +\ 5.58 \\ \hline \end{array} \qquad \begin{array}{r} 93.45 \\ 28.12 \\ +\ 23.3 \\ \hline \end{array} \qquad \begin{array}{r} 27.38 \\ 92.46 \\ +\ 84.9 \\ \hline \end{array}$$

42.5 − 16.30	7.28 − 0.95	74.27 − 2.56	32.56 − 23.65

586 × 3.7	2.1 × 0.8	3.50 × 2.6	38.2 × 7.58

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Check What You Learned

SHOW YOUR WORK

Multiplying and Dividing Whole Numbers

Solve each problem.

7. The park's sprinklers can spray 1,748 gallons of water on the grass in 38 minutes. How many gallons can they spray in one minute?

They can spray _____ gallons per minute.

7.

8. The auto factory will build 1,408 new trucks in the next 32 days. How many will it build in one day?

It will build _____ trucks each day.

8.

9. Pizza Depot will open 31 new restaurants next year. Each restaurant will need 27 employees. How many employees will Pizza Depot need to hire for the new restaurants?

Pizza Depot will need to hire _____ employees.

9.

10. The parking lot has 1,326 spaces to hold cars. The lot is divided into 26 equal rows. How many cars can be parked in each row?

_____ cars can park in each row.

10.

11. If a machine can make 761 pencils in a second, how many pencils can it make in 23 seconds?

It can make _____ pencils.

11.

12. In New York City, each mail truck has 1,023 pieces of junk mail. If there are 71 mail trucks, how much junk mail do they have total?

They have _____ pieces of junk mail.

12.

NAME _____

Check What You Learned

Understanding Fractions

Show your work under each problem.

Find the least common multiple for each set of numbers.

3 and 4	4 and 12	15 and 20	10 and 6	10 and 3
_____	_____	_____	_____	_____

Find the equivalent fraction.

$\frac{7}{12} = \frac{\quad}{60}$ $\quad \frac{8}{9} = \frac{\quad}{81}$ $\quad 4 = \frac{\quad}{8}$ $\quad \frac{7}{10} = \frac{\quad}{30}$

Compare each pair of fractions using <, >, or =.

$\frac{8}{6} \_\_\_\_ \frac{6}{8}$ $\quad \frac{10}{8} \_\_\_\_ \frac{6}{5}$ $\quad \frac{7}{9} \_\_\_\_ \frac{6}{8}$ $\quad \frac{12}{10} \_\_\_\_ \frac{6}{5}$

Show your work under each problem.

Change each improper fraction to a mixed number in simplest form.

$\frac{48}{21}$ _____ $\frac{25}{3}$ _____ $\frac{10}{7}$ _____ $\frac{30}{7}$ _____ $\frac{22}{8}$ _____

Change each mixed number to an improper fraction.

$3\frac{6}{8}$ _____ $9\frac{8}{12}$ _____ $4\frac{7}{14}$ _____ $6\frac{3}{8}$ _____ $2\frac{9}{8}$ _____

Find the greatest common factor for each set of numbers.

16 and 24 21 and 14 9 and 45 13 and 25 12 and 45

_____ _____ _____ _____ _____

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Add or subtract. Write answers in simplest form. Show your work

$$\begin{array}{r} \frac{3}{4} \\ +\ \frac{1}{4} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{2}{7} \\ +\ \frac{3}{5} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{7}{8} \\ +\ \frac{1}{3} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{5}{8} \\ -\ \frac{1}{8} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{6}{9} \\ -\ \frac{2}{3} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{10}{11} \\ -\ \frac{4}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 2\frac{3}{4} \\ +\ 4\frac{2}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 2\frac{5}{8} \\ +\ 9\frac{3}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 2\frac{5}{6} \\ +\ 1\frac{1}{8} \\ \hline \end{array}$$

Show your work.

$$8\frac{1}{3} + 8\frac{5}{7} = \_\_\_\_$$

$$7\frac{1}{4} - 3\frac{2}{9} = \_\_\_\_$$

$$8\frac{1}{4} - 5\frac{3}{4} = \_\_\_\_$$

Simplify each of the following.

$\frac{18}{20}$ _____ $\frac{28}{35}$ _____ $2\frac{2}{12}$ _____

$3\frac{4}{6}$ _____ $\frac{51}{6}$ _____ $7\frac{8}{12}$ _____

Multiplying and Dividing Fractions

Multiply. Write answers in simplest form.

	a	b	c
1.	$\frac{1}{4} \times \frac{8}{9} =$ ____	$\frac{3}{5} \times \frac{5}{6} =$ ____	$\frac{5}{7} \times \frac{1}{2} =$ ____
2.	$\frac{11}{12} \times \frac{2}{3} =$ ____	$\frac{3}{7} \times \frac{4}{5} =$ ____	$\frac{3}{4} \times \frac{3}{8} =$ ____
3.	$3 \times \frac{5}{8} =$ ____	$\frac{1}{6} \times 4 =$ ____	$\frac{1}{3} \times 9 =$ ____
4.	$2\frac{7}{8} \times 2 =$ ____	$1\frac{7}{12} \times 9 =$ ____	$3\frac{3}{10} \times 8 =$ ____

Divide. Write answers in simplest form.

$6 \div \frac{1}{8} =$ ____ $\frac{1}{9} \div 4 =$ ____ $2 \div \frac{1}{10} =$ ____

$\frac{1}{3} \div 10 =$ ____ $\frac{1}{5} \div 4 =$ ____ $2 \div \frac{1}{8} =$ ____

$\frac{1}{5} \div 6 =$ ____ $5 \div \frac{1}{3} =$ ____ $\frac{1}{8} \div 3 =$ ____

Evaluate each expression below.

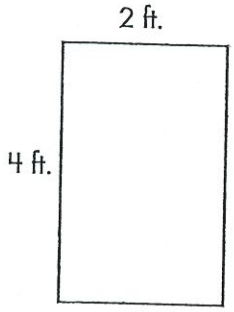
$21 \div 3 + (3 \times 9) \times 9 + 5 =$ ____

$18 \div 6 \times (4 - 3) + 6 =$ ____

$14 - 8 + 3 + 8 \times (24 \div 8) =$ ____

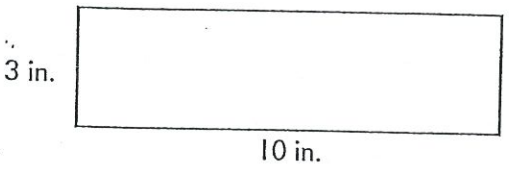
$4 \times 5 + (14 + 8) - 36 \div 9 =$ ____

Find the area and perimeter of each figure.



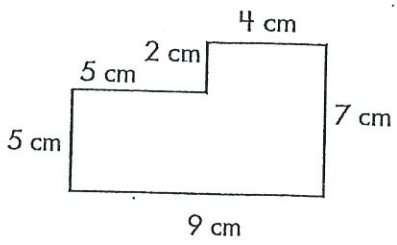
A = _____ sq. ft.

P = _____ ft.



A = _____ sq. in.

P = _____ in.



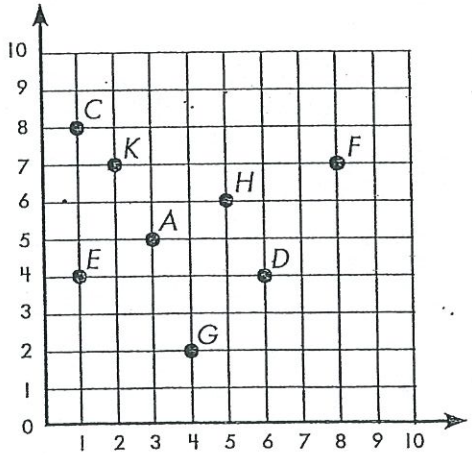
A = _____ sq. cm

P = _____ cm

Refer to the grid to the right. Name the point for each ordered pair.

(6, 4)_____ (1, 8) _____

(1, 4)_____ (3, 5) _____



Solve.

India's house is at point *C*. She walks to school, which is at point *G*. First, she walks east, and then south. How many blocks does India walk to get to school?

India walks _____ blocks to get to school.