

1) What is the fraction for 0.32. Reduce to lowest terms.

2) Where does the decimal go in the answer for the following:

$$2.34 \times 0.01 = 0.0234$$

$$\frac{32}{100} \div 4 = \frac{8}{25}$$

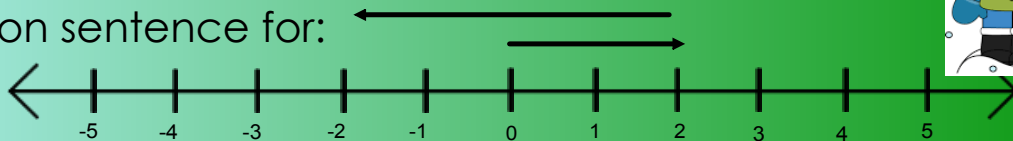
3) Where will the decimal be placed in the answer for :

$$32.4 \div 0.1 = 324$$



4) $0.4 \times 0.9 = 0.36$

5) Addition sentence for:



6) $0.2 \times 18 = 3.6$

$$(+2) + (-4)$$

7) $(-4) - (-5) = +1$

$$10 \quad 13 \quad 19$$

8) What number is divisible by 6? a) 154 b) 328 c) 964

9) Put a digit at the end of this number to make it divisible by 3

$$8 \times 3 = 24$$

$$84 \underline{\quad}$$

$$8 \times 3 = 24$$

10) $1/5$ of 50

$$10$$

Where do you place the decimal for each:

$0.8 \rightarrow 8$
 $54.26 + 03.58 = 57.84$
 $54.2 + 3.58 = 57.78$
 $312.40 - 12.31 = 300.09$
 $2.2 \times 1.3 = 2.86$
 $25.0 \div 0.5 = 50.0$
 $720 \div 0.9 = 800$
 $72.0 \div 9 = 8.0$
 $250 \div 5 = 50$

Numerical answers are not all correct - decimal placement was the focus

$0.36 \div 0.6$
 $3.6 \div 6 = 0.6$

Algebraic Expressions

In the expression $5k + 2$,

no equal sign

- 5 is the **numerical coefficient** of the variable.
- 2 is the **constant term**. (+, -, x, ÷)
- k is the **variable**.

The variable represents any number in a set of numbers.

Variables are written in italics so they are not confused with units of measurement.

BANG!

Practice

$$3x + 2$$

1. Identify the numerical coefficient, the variable, and the constant term in each algebraic expression.

a) $3x + 2$ b) $5n$ c) $w + 3$ d) $2p + 4$

| | n.c | v | con. term |
|-------------|-----|-----|-----------|
| a) $3x + 2$ | 3 | x | 2 |
| b) $5n$ | 5 | n | none |
| c) $w + 3$ | 1 | w | 3 |
| d) $2p + 4$ | 2 | p | 4 |

$$(20 + 4b)$$

Here are some other algebraic expressions, and their meanings.

In each case n represents the number.

- Three more than a number: $3 + n$ or $n + 3$ —
- Seven times a number: $7n$ —
- * Eight less than a number: $n - 8$
- * A number divided by 20: $\frac{n}{20}$



$7n$ means $7 \times n$.

$\frac{x}{4}$ means $x \div 4$.

$\frac{1}{5}$ of 30

$$\boxed{3 + 2} \text{ } \textcircled{2}$$

3. Write an algebraic expression for each phrase.

- a) six more than a number $b + 6$
- b) a number multiplied by eight $8z$
- c) a number decreased by six $n - 6$
- d) a number divided by four

$$\frac{n}{4} \quad n \div 4$$

5. Write an algebraic expression for each sentence. no ANSWERS
- a) Double a number and add three. $2n+3$ 21
- b) Subtract five from a number then multiply by two. 7
- c) Divide a number by seven then add six.
- d) A number is subtracted from twenty-eight. $28-n$
- e) Twenty-eight is subtracted from a number. $n-28$

c) $\frac{f}{7} + 6$

b) $\frac{7}{1}$

$(c-5) \times 2$

a) $a+b, b+a$

b) $18n$

c) n

e) $11n+b$

f) $23-8n$

d) $\frac{7}{1}$

a) $n-12$

g) $3n-13$

→

7. Evaluate each expression by replacing x with 4.

a) $x + 5$

b) $3x$

c) $2x - 1$

d) $\frac{x}{2}$

e) $3x + 1$

f) $20 - 2x$

- 4.** A person earns \$4 for each hour he spends baby-sitting.
- a) Find the money earned for each time.
 - i) 5 h
 - ii) 8 h
 - b) Write an algebraic expression you could use to find the money earned in t hours.

