

WATKINS MILL HS
SUMMER REVIEW PACKET
GEOMETRY
& HONORS GEOMETRY
DUE 3rd DAY OF CLASS
IN AUGUST

Solve each equation.

$$1) 6 = \frac{a}{-4} + 2$$

$$2) -6 + \frac{x}{4} = -5$$

$$3) 9x - 7 = -7$$

$$4) 0 = 4 + \frac{n}{5}$$

$$5) -4 = \frac{r}{20} - 5$$

$$6) -1 = \frac{5+x}{6}$$

$$7) \frac{v+9}{3} = 8$$

$$8) 2(n+5) = -2$$

$$9) -9x + 1 = -80$$

$$10) -6 = \frac{n}{2} - 10$$

Solving Proportions

Solve each proportion.

$$1) \frac{10}{8} = \frac{n}{10}$$

$$2) \frac{7}{5} = \frac{x}{3}$$

$$3) \frac{9}{6} = \frac{x}{10}$$

$$4) \frac{7}{n} = \frac{8}{7}$$

$$5) \frac{4}{3} = \frac{8}{x}$$

$$6) \frac{7}{b+5} = \frac{10}{5}$$

$$7) \frac{6}{b-1} = \frac{9}{7}$$

$$8) \frac{4}{m-8} = \frac{8}{2}$$

$$9) \frac{5}{6} = \frac{7n+9}{9}$$

$$10) \frac{4}{9} = \frac{r-3}{6}$$

Multiplying Polynomials

Find each product.

1) $6v(2v + 3)$

2) $7(-5v - 8)$

3) $2x(-2x - 3)$

4) $-4(v + 1)$

5) $(2n + 2)(6n + 1)$

6) $(4n + 1)(2n + 6)$

7) $(x - 3)(6x - 2)$

8) $(8p - 2)(6p + 2)$

9) $(6p + 8)(5p - 8)$

10) $(3m - 1)(8m + 7)$

Factoring Trinomials (a = 1)

Factor each completely.

1) $b^2 + 8b + 7$

2) $n^2 - 11n + 10$

3) $m^2 + m - 90$

4) $n^2 + 4n - 12$

5) $n^2 - 10n + 9$

6) $b^2 + 16b + 64$

7) $m^2 + 2m - 24$

8) $x^2 - 4x + 24$

9) $k^2 - 13k + 40$

10) $a^2 + 11a + 18$

Solve the formula for the specified variable:

1.) $V = LWH$ for L

2.) $3x + y = 3$ for y

3.) $V = \frac{1}{3}Bh$ for B

4.) $3x + 2y = 4$ for y

5.) $3x - 2y = 8$ for y

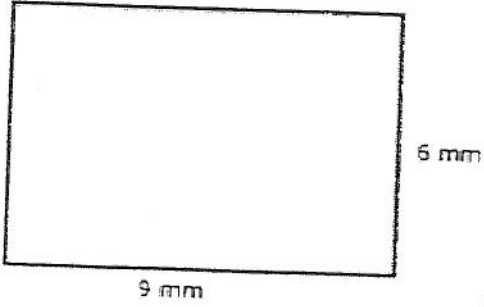
6.) $2x + 3y = 6$ for y

7. Solve by quadratic formula - remember: $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

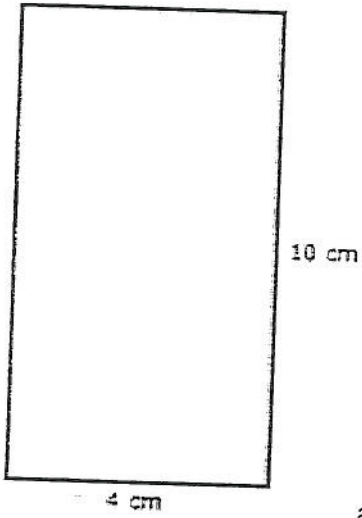
_____ 1. $x^2 + 3x - 5 = 0$

_____ 2. $x^2 - 5x + 2 = 0$

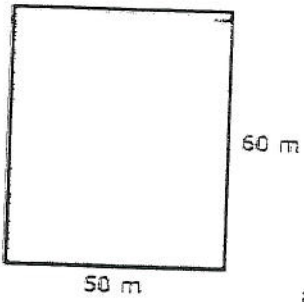
Calculate the areas for each of the rectangles below.



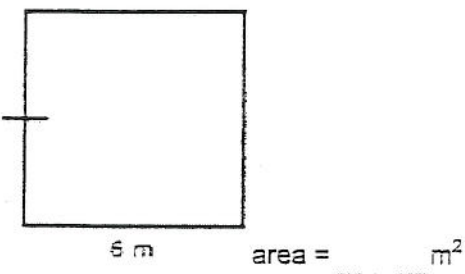
area = mm²



area = cm²

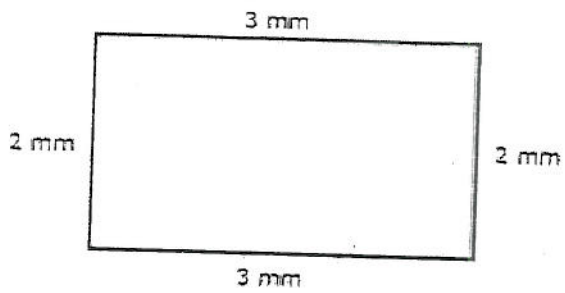


area = m²

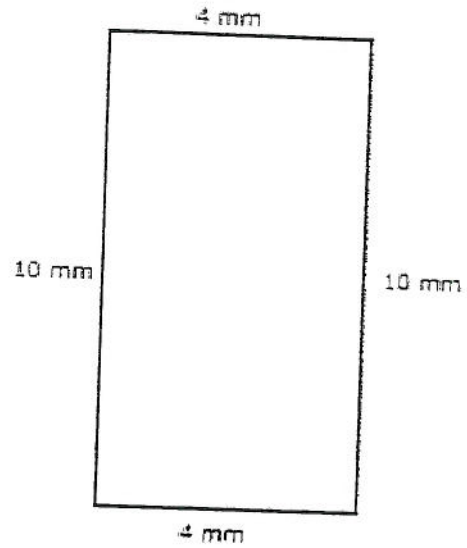


area = m²

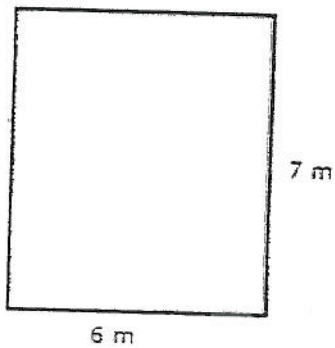
Calculate and write the *perimeter* for each of the shapes below. (Do not measure)



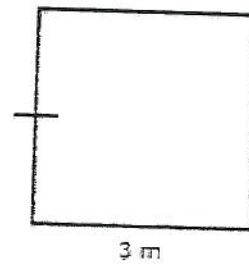
perimeter = _____ mm



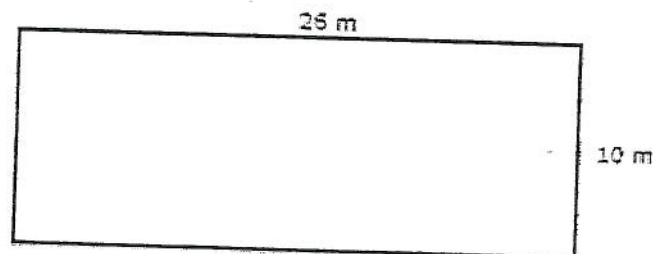
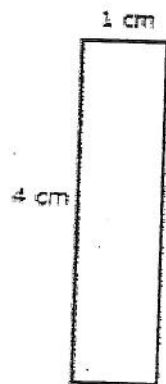
perimeter = _____ mm



perimeter = _____ m

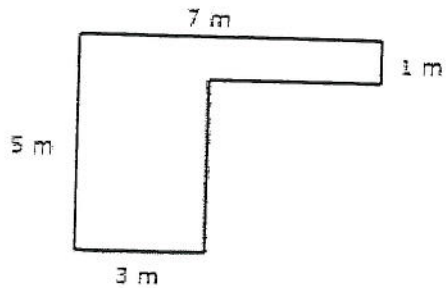


perimeter = _____ m

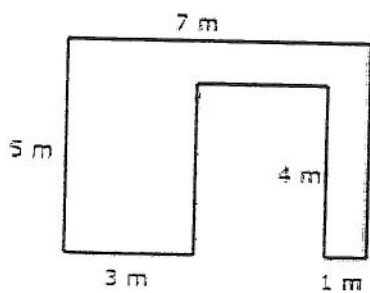


perimeter = _____ cm

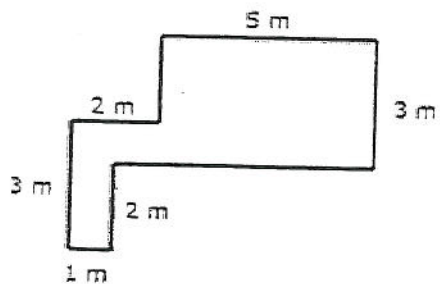
Calculate and write the *perimeter* for each of the shapes below. (Do not measure)



perimeter = m



perimeter = m



perimeter = m