

**Monday**

1. If the circumference of a circle is 40 cm, approximately how long is the diameter? Approximately how long is the radius?

2. Graph the inequalities on a number line.

a.  $x \leq -3$

b.  $x > 1.5$

3. Solve the equations. Check your answers (by substitution).

a.  $3(4x - 1) = 9$

b.  $-9 - 5 + 6x = 28$

4. Does the following table show a proportional relationship? Explain why or why not.

x	y
0	0
3	12
6	24
8	32

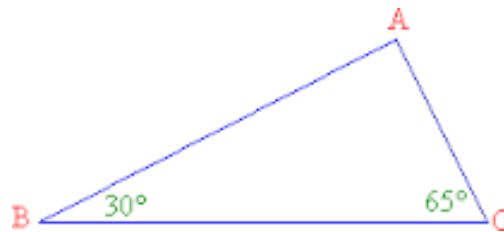
**Tuesday**

1. Simplify the expressions by combining like terms:

a.  $4(2m + s) - 8m$

b.  $7x + 10c + 5x - 9c$

2. Find the value of angle A in the image at right.



3. You bought a sweatshirt for \$24.99. The sales tax is 7.5%. What was the total cost of the sweatshirt?

4. Marcia's bag contains 54 marbles. If the probability of reaching in and pulling out a blue marble at random is  $\frac{4}{9}$ , how many blue marbles are in the bag?

## Wednesday

1. Solve the equations. Check your answers (by substitution).

a.  $27 = -6(x - 4)$

b.  $38 - 3 = 3(5x + 7) - 8x$

2. Complete the table, then create an equation (rule) that matches the table.

x	0	1	2	4	
y	0	8	16		48

3. Choose the inequality that best matches the situation: *The table can be no less than 3 feet tall but no more than 5 feet tall. Let x represent the height of the table.*

a.  $5 < x < 3$

b.  $3 \leq x \leq 5$

c.  $3 < x < 5$

d.  $3 < x \leq 5$

4. Solve. Check your answers (by substitution).

a.  $\frac{x}{5} + 7 = 11$

b.  $\frac{2}{3}x = \frac{5}{9}$

## Thursday

1. Tell which number is greater and defend your claim.

a.  $\frac{16}{20}$ , 90%

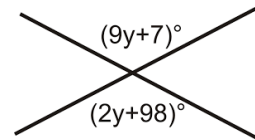
b. 400%, 0.4

c. 1.8%, 0.18

d.  $\frac{5}{9}$ , 50%

2. Solve for y in the angle diagram at right.

What do we call these angles?



3. Simplify the expressions:

a.  $10 - \left(\frac{18}{3}\right)^2 \cdot 2 + 9$

b.  $\left(27 \div \frac{3}{2}\right) - 1^2$

4. A rectangular prism has a length of 5 cm. a height of 2 cm. and a width of 3 cm. Compute the surface area **and** volume of the rectangular prism.