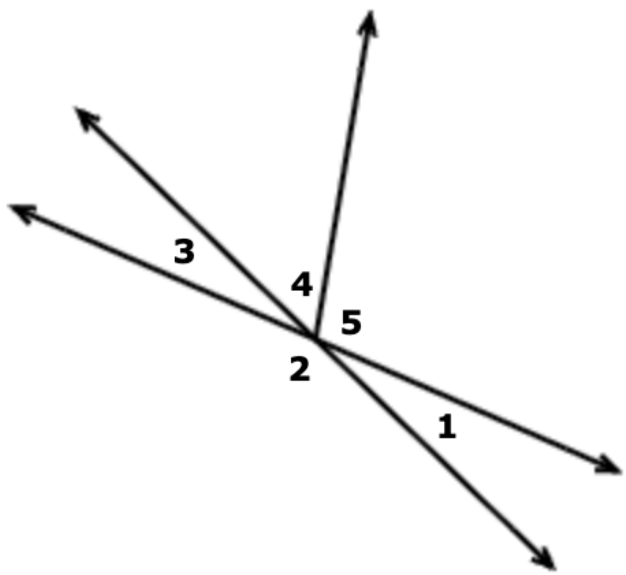
Name: Class:

Practice Quiz

Question 01



What angle is supplementary to (forms a straight 180 degree line with) angle 1?

What angle is supplementary to (forms a straight 180 degree line with) angle 3?

What angle is vertical to (across the intersection and equal to) angle 1?

What is the sum of angle 3 + angle 4 + angle 5?

Question 02

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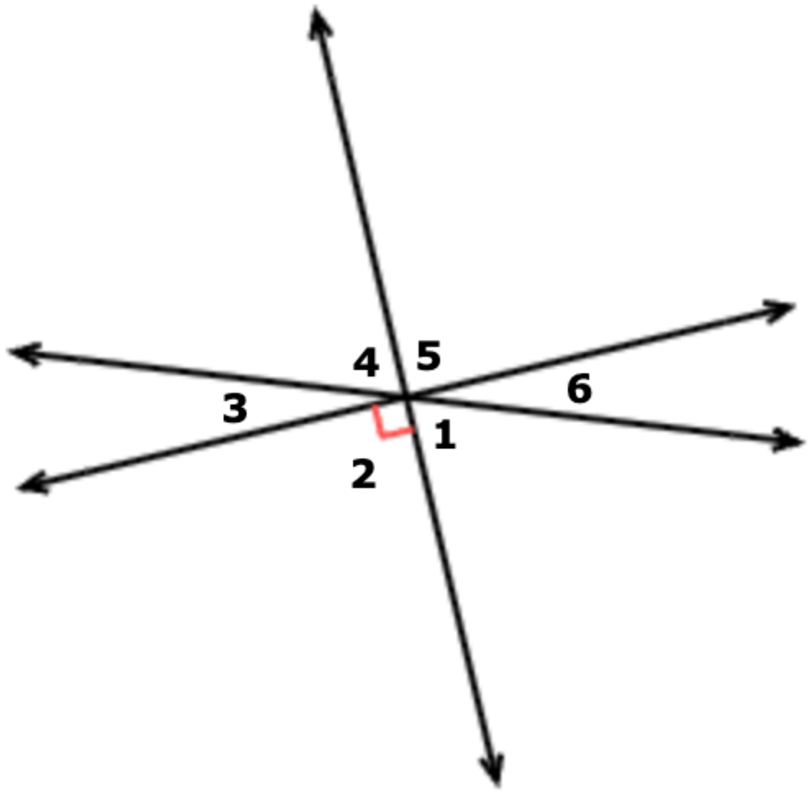


What angle is vertical to (across intersection and equal to) angle 1?

What angle is vertical to (across intersection and equal to) angle 3?

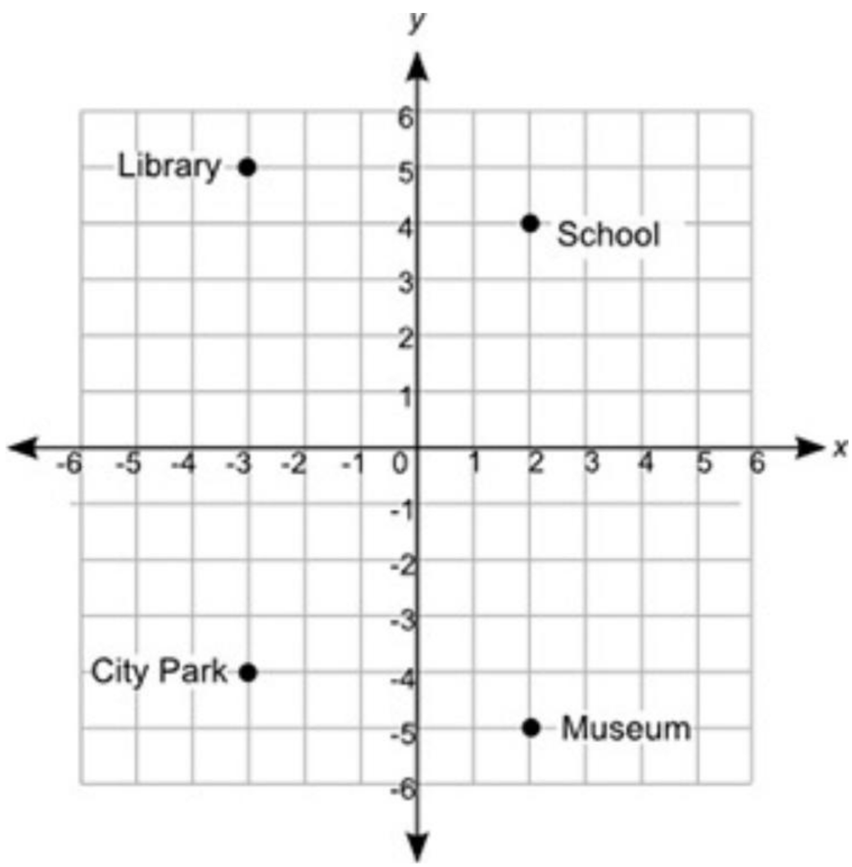
What angle is vertical to (across intersection and equal to) angle 5?

What is the sum of angle 1 + angle 2 + angle 3?

What is the sum of angle 5 + angle 6 + angle 1?

What is the sum of angle 3 + angle 4 + angle 5?

Question 03



What is the location of Library?

What is the location of School?

What is the location of City Park?

What is the location of Museum?

What is the distance from the Library to the City Park?

What is the distance from the School to the Museum?

Question 04

Figure B is a scale image of Figure A, as shown.

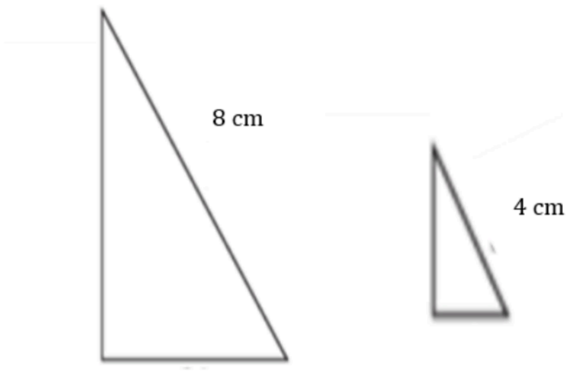


Figure A **Figure B**

Enter the scale factor applied to Figure A to produce Figure B.

Question 05

Do the triangles in Question 04 above have the same angles?

Question 06

Figure B is a scale image of Figure A, as shown.

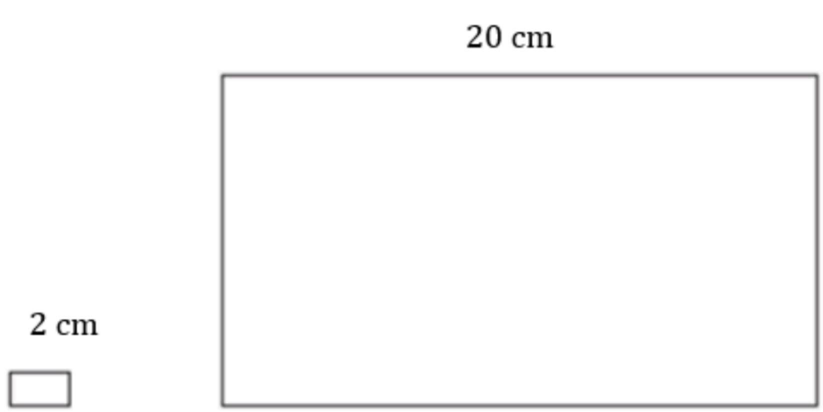


Figure A **Figure B**

Enter the scale factor applied to Figure A to produce Figure B.

Question 07

Solve.

$4 + (-3) =$

$3 - 5 =$

$5 + (-7) =$

$-5 - 1 =$

$-7 + 2 =$

$2 - 5 =$

$-6 + (-2) =$

$-1 - 5 =$

$-3 + 6 =$

$5 - 6 =$

Question 08

The table below shows a proportional relationship between x and y.

x	y
0	0
4	20
8	40
10	50

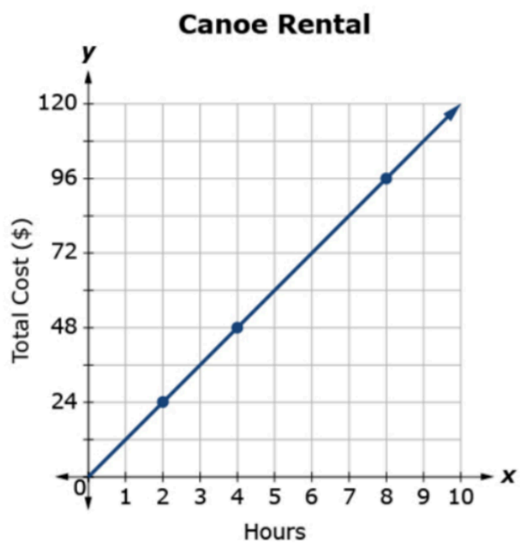
Find the constant of proportionality (r). Using the value for r, enter the equation in the form $y = rx$.

The table below shows a proportional relationship between x and y.

x	y
0	0
3	6
4	8
6	12

Find the constant of proportionality (r). Using the value for r, enter the equation in the form $y = rx$.

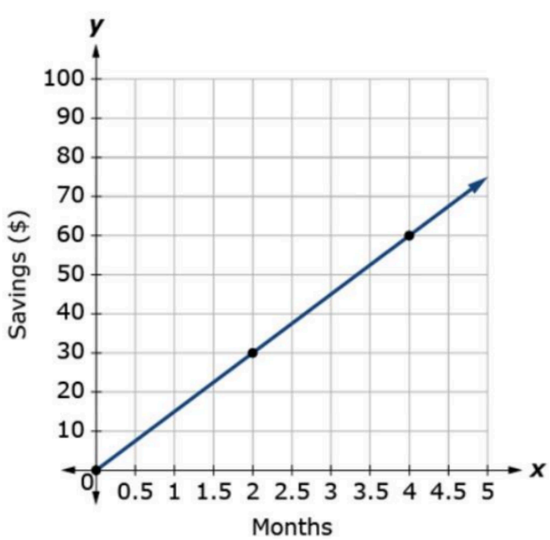
Question 09



Part A. What is the constant of proportionality (r)?

Part B. Write the equation in $c = rh$ form where c is the total cost and h is the number of hours.

Part C. Write the unit rate coordinate. (____ , ____)



Part A. What is the constant of proportionality (r)?

Part B. Write the equation in $s = rm$ form where s is the total savings and m is the number of months.

Part C. Write the unit rate coordinate. (____ , ____)

Question 10

Solve.

$-(-2) =$

$(-2)(-2) =$

$-(-2)(-2) =$

$(-5)(-5) =$

$-(-5)(-5) =$

$(-1)(5)(5) =$

$-(-1)(-5)(5) =$

$-(-1)(-5)(-5) =$

$-(-5)(-4)\left(\frac{1}{5}\right) =$

$-(-8)(4)\left(\frac{1}{8}\right) =$

$-(7)(5)\left(\frac{1}{7}\right) =$

$-(-5)(-10)\left(-\frac{1}{5}\right) =$

$(-8)(5)\left(\frac{1}{8}\right) =$

$-(-5)(7)\left(\frac{1}{5}\right) =$

$-(-4)(-10)\left(-\frac{1}{4}\right) =$

Question 11

Simplify.

a) $7x + 5 - x - 8$

b) $-4x - 3 + x - 8$

c) $x + 4 - 5x - 2$

d) $-3x - 5 + 7x + 4$

e) $3x - 5 - 5x + 6$

f) $-2x + 4 - x - 7$

g) $-x - 3 + 5x + 5$

h) $x + 3 - 5x - 5$

Question 12

You buy three tacos, each costing t dollars, and one soda costing s dollars. You spend a total of \$3.80. Which equation models this situation?

a) $3t - s = 3.8$

b) $3 + t + s = 3.8$

c) $3t + s = 3.8$

d) $3 - t - s = 3.8$

You buy two granola bars, each costing g dollars, and one water costing w dollars. You spend a total of \$3.15. Which equation models this situation?

a) $2w + g = 3.15$

b) $2w - g = 3.15$

c) $2g - w = 3.15$

d) $2g + w = 3.15$

You buy one pair of pants for p dollars and three shirts, each costing s dollars. You spend a total of \$36.90. Which equation models this situation?

a) $3s + p = 36.9$

b) $3s - p = 36.9$

c) $3p + s = 36.9$

d) $3p - s = 36.9$

You buy two hot dogs, each costing h dollars, and one soda costing s dollars. You spend a total of \$3.95. Which equation models this situation?

a) $2h + s = 3.95$

b) $2h - s = 3.95$

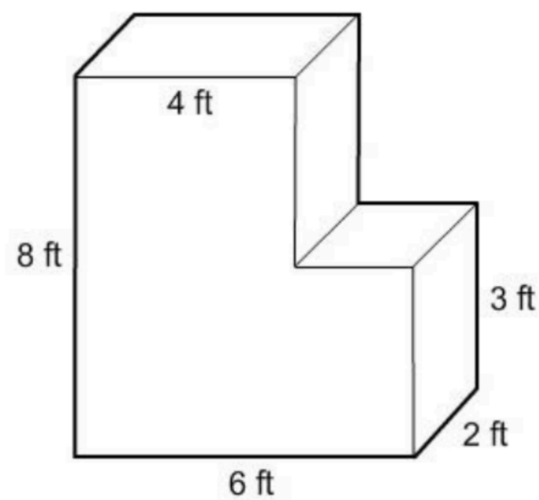
c) $2s + h = 3.95$

d) $2s - h = 3.95$

Optional Bonus Questions

What is the surface area (not volume) of the figure below?

Instead of finding the area of each panel, find the bases and wrap it like a present!



(a) Surface area of one face: ____________ square feet

(b) Surface area of BOTH faces: ____________ square feet

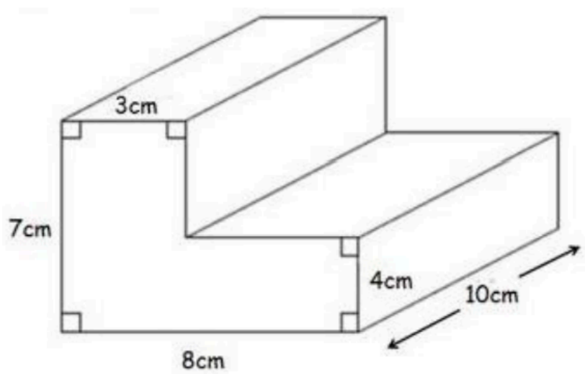
(c) Perimeter of one face: ____________ feet

(d) Perimeter times depth: ____________ square feet

Total Surface Area [(b) + (d)]: ____________ square feet

Again, try finding the bases and wrapping it like a present!

Find the surface area of the figure below.



(a) Surface area of one face: ____________ square cm

(b) Surface area of BOTH faces: ____________ square cm

(c) Perimeter of one face: ____________ cm

(d) Perimeter times depth: ____________ square cm

Total Surface Area [(b) + (d)]: ____________ square cm