

Two-Step Equations - Integers

Sheet 1

- 1) Dalia bought a few swirl marbles and divided it equally among four of her friends and her brother, Jake. While playing, Jake lost 2 marbles and has only 7 marbles at present. Find how many marbles did Dalia buy in all.

- 2) A bus departed from New York at 11 pm with 44 passengers. An hour later, a few passengers got off at New Jersey. The number of passengers who boarded the bus at New Jersey were twice the number of passengers who got off the bus. If the bus has 50 passengers now, how many passengers got off at New Jersey?

- 3) Clara lends half her collection of formal attires to her sister, Susan. Clara then buys four more attires. If she has 12 attires now, how many attires did Clara had initially?

- 4) The Rock Zoo nurses 37 species of big cats. Recently, a few species of big cats were sponsored to other zoos around the country. The zoo now nurses only 25 species. How many species of big cats were sponsored to other zoos?

- 5) Megan and four of her friends plan to go for a long drive. She buys 12 bottles of frappe and a few bottles of orange juice from a supermarket. The total number of bottles they have are four times that of orange juice bottles. How many bottles of orange juice did Megan buy?

Multi-Step Equations - Integers

Sheet 1

- 1) Aiden borrows a book from a public library. He read a few pages on day one. On day two, he reads twice the number of pages than he read on day one. On the third day, he reads six pages less than what he read on the first day. If he has read the entire book that contains 458 pages, how many pages did he read on day three?

- 2) 'The Godfather' sold one million more than twice the number of tickets that were sold for 'The Santa Clause'. 'E.T.' sold 15 million more than twice the tickets sold for 'The Godfather'. If 270 million tickets were sold in all, how many tickets were sold out for 'The Godfather'?

- 3) Linda is twice as old as Vera. Tanya is four less than four times the age of Linda. Their total age is two more than nine times the age of Vera. How old is Tanya?

- 4) The lifespan of a guinea pig is 6 years less than that of a giraffe. The lifespan of a tiger is 4 times that of the guinea pig. If the total lifespan of the animals is 30 years, calculate the longevity for the giraffe.

- 5) A website received 9,347 visits during the first month of its launch. The third month witnessed three times the number of visits than the second month. If the website received 13,455 visits over the three month period, how many visits did it witness during the second month?

Name _____

Date _____



BAR GRAPHS SHEET 4A - WINGSPANS

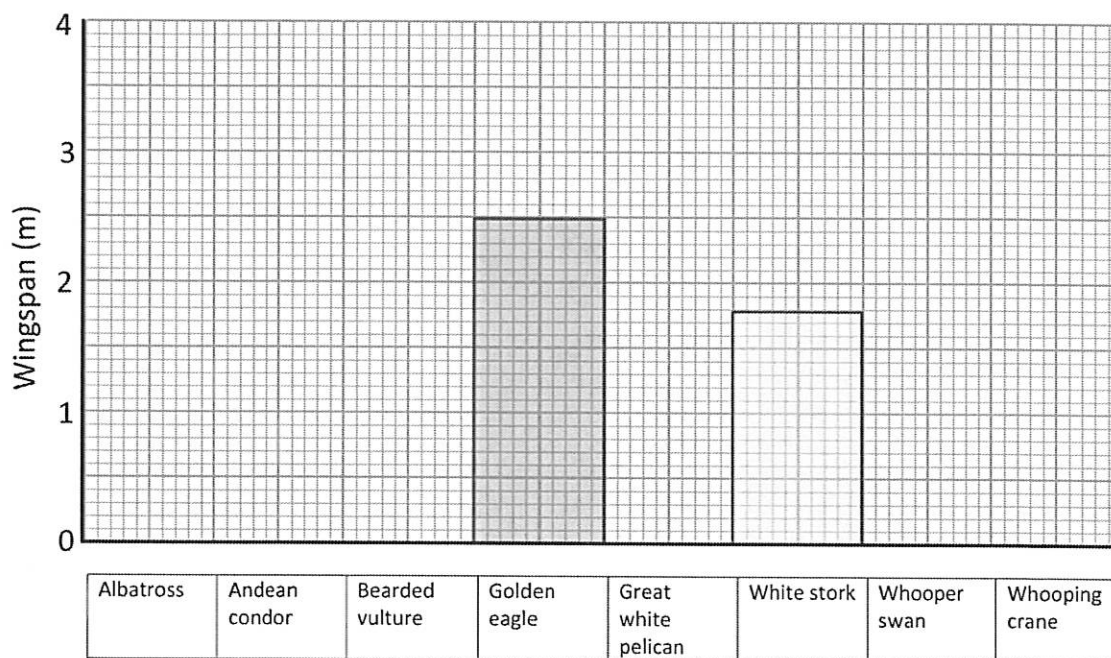
Here are the wingspans of some of the biggest birds in the world.

Bird	Wingspan (m)
Albatross	3.7
Andean condor	3.2
Bearded vulture	2.8
Golden eagle	
Great white pelican	3.6
White stork	
Whooper swan	2.8
Whooping crane	2.3

1) Complete the bar graph for the birds.

2) Fill in the table for the wingspan of the golden eagle and the white stork.

3) How much longer is the wingspan of the albatross than the whooper swan?



4) Which bird has a wingspan which is 90cm more than the whooping crane?

5) What is the difference between the longest and shortest wingspan?

Name _____

Date _____



MAGIC SQUARE WORKSHEET 4.4

In a magic square, each row, column and diagonal add up to the same total.

Can you fill in the missing numbers in these magic squares?

1) The sum is 10.

	-4	-3	
	5		2
3	1		6
		9	-5

2) The sum is 17.

$3\frac{1}{2}$			7
1	$6\frac{1}{2}$	4	
8		5	
	3		2

3) The sum is 2.

	4	-7	6
	5		
8			-3
		7	-4

4) The sum is 170.

80		45	20
10	55		70
	40		5

Name _____

Date _____



MATH RIDDLES 5B

Select the correct answer from a choice of 8 possibilities.

- 1) My nearest thousand is 2000.

The total of my digits is greater than 14.

I am divisible by 9.

If you round me to the nearest 100, I round down not up.

The difference between my largest and smallest digit is 7.

Who am I?

1458	2138	1809	2509
1872	1917	2008	1836

- 2) My nearest whole number is 1.

If you multiply me by 10, I am not a whole number.

My hundredths digit is even.

I am greater than 11 tenths.

Who am I?

0.82	1.27	0.7	0.46
1.18	0.63	0.59	1.57



Name _____

Date _____



MATH RIDDLES 5B

Select the correct answer from a choice of 8 possibilities.

- 1) My nearest thousand is 2000.

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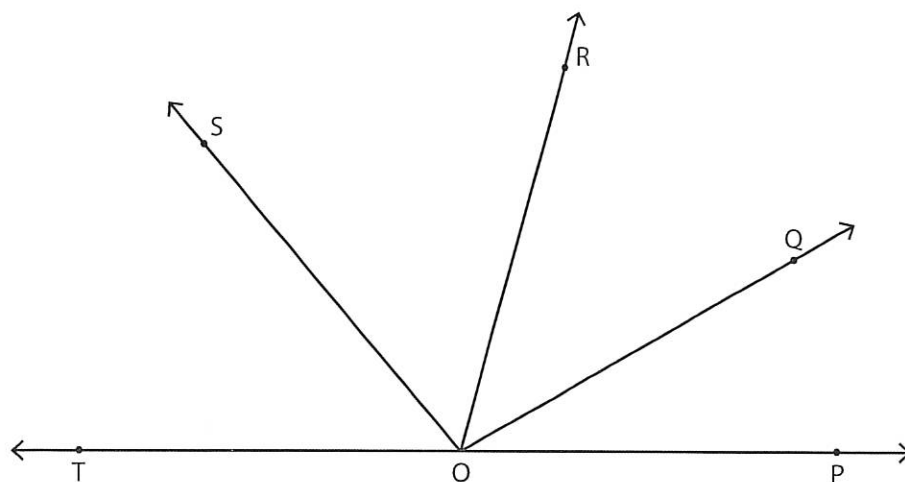


Angles - Multiple Rays

Sheet 1

Find the measure of given angles using protractor.

1)



a) $\angle POQ =$ _____

d) $\angle POR =$ _____

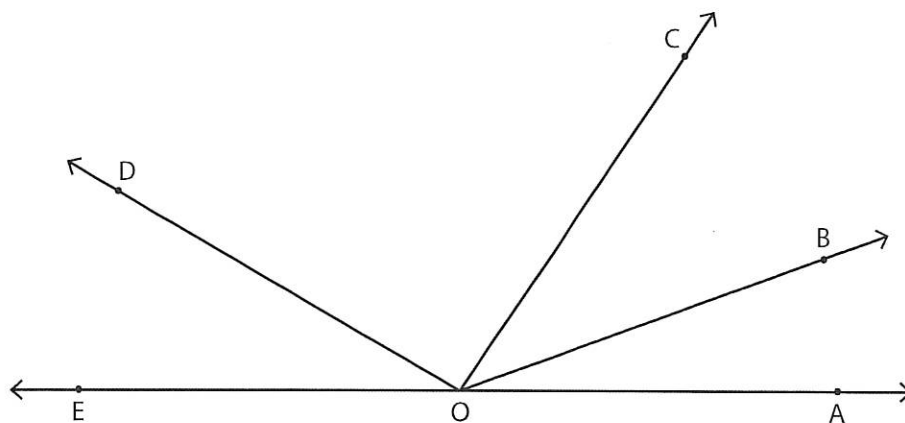
b) $\angle QOR =$ _____

e) $\angle POS =$ _____

c) $\angle ROS =$ _____

f) $\angle ROT =$ _____

2)



a) $\angle AOC =$ _____

d) $\angle COE =$ _____

b) $\angle BOD =$ _____

e) $\angle DOE =$ _____

c) $\angle AOB =$ _____

f) $\angle AOD =$ _____

Complementary and Supplementary Angle Worksheet

Name _____ Date _____

1. If two angles add up to 180° they are _____ angles.

2. If two angles add up to 90° , they are _____ angles.

One angle of a pair of complementary angles is given. What is the measurement of the other angle?

3. 45° _____

4. 82° _____

5. 23° _____

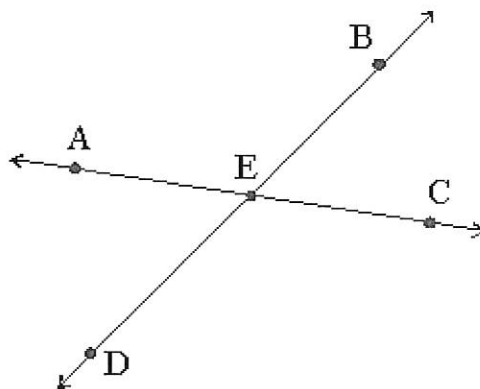
One angle of a pair of supplementary angles is given. What is the measurement of the other angle?

6. 173° _____

7. 75° _____

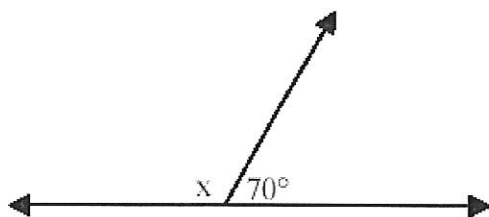
8. 92° _____

9. Name two pairs of supplementary angles in the figure below.



_____ / _____

10.



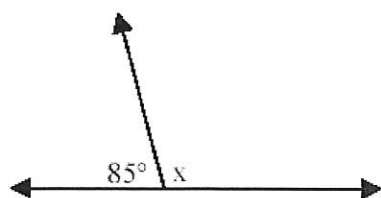
These two angles are:

Supplementary _____

Complementary _____

Angle $x =$ _____

11.



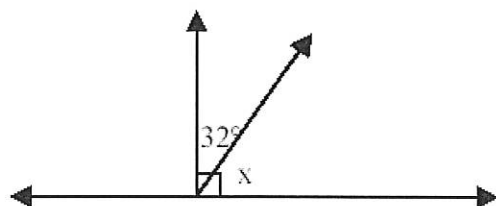
These two angles are:

Supplementary _____

Complementary _____

Angle $x =$ _____

12.

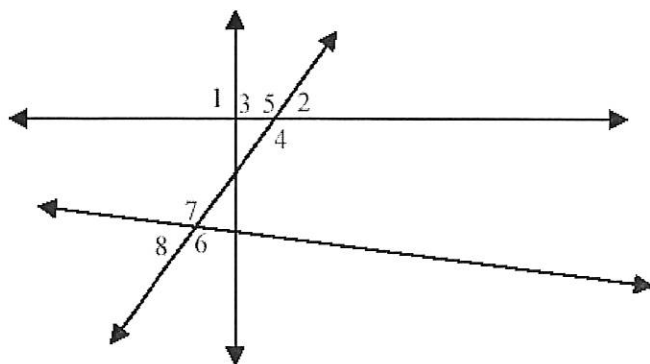


These two angles are:

Supplementary _____

Complementary _____

Angle $x =$ _____



Given: $\angle 1 = 90^\circ$

$\angle 2 = 34^\circ$

$\angle 6 = 137^\circ$

13. $\angle 3 =$ _____ $^\circ$

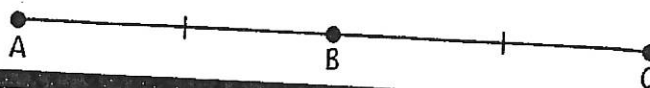
14. $\angle 8 =$ _____ $^\circ$

15. $\angle 4 =$ _____ $^\circ$

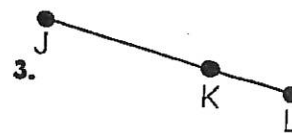
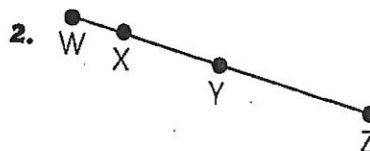
Midpoints

A **midpoint** is a point that bisects, or divides, a line segment into two **congruent** parts.

Point B is the midpoint of \overline{AC} . Therefore, $\overline{AB} \cong \overline{BC}$.



Name the midpoints.



Draw and label each of the following.

4. L is the midpoint of \overline{KM} . 5. \overline{CD} is bisected by point M. 6. $\overline{XY} \cong \overline{YZ}$, on \overline{XZ} .

Use the figure and information below to find the length of each segment.

D is the midpoint of \overline{CE} .

B is the midpoint of \overline{AC} .

C is the midpoint of \overline{AE} .



7. $\overline{AB} =$ _____ 8. $\overline{BC} =$ _____ 9. $\overline{AC} =$ _____
 10. $\overline{CD} =$ _____ 11. $\overline{CE} =$ _____ 12. $\overline{AE} =$ _____

Use the figure and information below to find the length of each segment.

K bisects \overline{JM} .



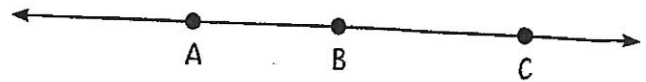
13. $\overline{KM} =$ _____ 14. $\overline{JK} =$ _____ 15. $\overline{JM} =$ _____

Name: _____ Date: _____

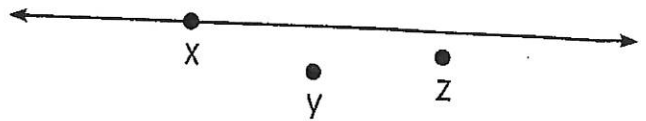
Collinear Points

When three or more points lie on the same line, they are **collinear**.

Points A, B, and C are collinear.

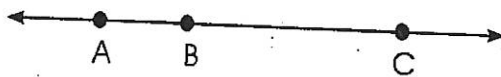


Points X, Y, and Z are not collinear.

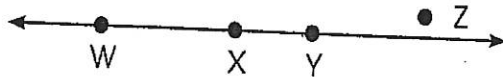


For each statement, circle *True* or *False*. Then, explain your answer.

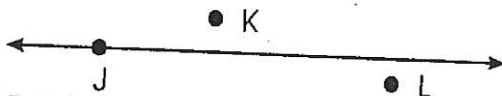
1. Points A, B, and C are collinear. True False _____



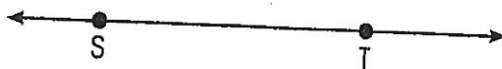
2. Points W, X, Y, and Z are collinear. True False _____



3. Points J, K, and L are not collinear. True False _____

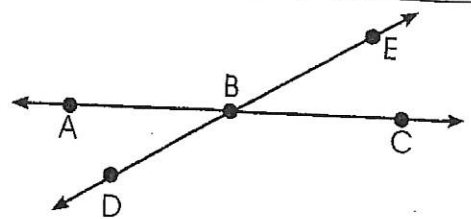


4. Points S and T are collinear. True False _____



Use the figure to the right to answer each question.

5. Name all sets of collinear points.



6. Name the points that are not collinear to \overleftrightarrow{DE} .

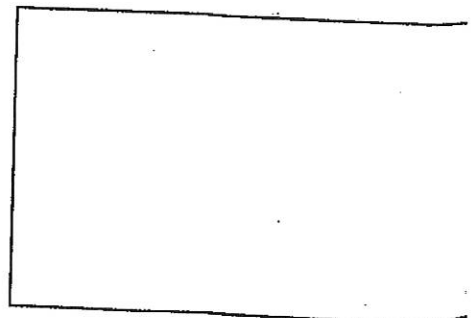
Use the provided information to draw and label the figure in the box to the right.

7. \overleftrightarrow{BK} intersects \overleftrightarrow{JM} at point L.
 \overleftrightarrow{RT} is parallel to \overleftrightarrow{JM} and intersects \overleftrightarrow{BK} at point C.

Use your drawing to name all sets of collinear points and two sets of points that are not collinear.

Collinear _____

Not collinear _____



Name

Date



MEAN, MEDIAN, MODE AND RANGE SHEET 1

Find the mean, median, mode and range in each of the sets of data.

1)	15, 23, 19, 20, 23		5)	22, 37, 19, 25, 37, 51, 82	
order	15, 19, 20, 23, 23		order		
	Mean $100 \div 5 = \underline{20}$	Median <u>20</u>		Mean	Median
	Mode <u>23</u>	Range $23 - 15 = \underline{8}$		Mode	Range
2)	2, 7, 4, 2, 3, 6, 11		6)	6, 2, 13, 7, 6, 11, 10, 6, 2	
order			order		
	Mean	Median		Mean	Median
	Mode	Range		Mode	Range
3)	70, 63, 67, 62, 63		7)	109, 104, 96, 103, 104, 107, 98	
order			order		
	Mean	Median		Mean	Median
	Mode	Range		Mode	Range
4)	11, 4, 7, 8, 2, 6, 4		8)	14, 68, 38, 65, 36, 57, 65	
order			order		
	Mean	Median		Mean	Median
	Mode	Range		Mode	Range