

Level 7 Summer Review

1) Find the value of t in the formula $s = \frac{1}{2}gt^2$ when $g = 9.8$ and $s = 40$

2) Find the value of C in the formula $F = \frac{9}{5}C + 32$ when $F = 68$

3) Find the value of u in the formula $\frac{1}{f} = \frac{1}{u} + \frac{1}{v}$ when $v = 15$ and $f = 5$

4) Classify as rational or irrational numbers

	C1	C2	C3	C4
a)	$\sqrt{101}$	$65.4\overline{79}$	65.479	$65.\overline{479}$
	Irrational			
b)	$\frac{65}{14}$	$\sqrt{64}$	$\sqrt{8}$	$\sqrt[3]{8}$
c)	$\sqrt[3]{5}$	0	-1.3	$-3.15\overline{3}$

Level 7 Summer Review 2015-16

5)

Find the value of the variable

$$\left[\left(\frac{5}{9}\right)^3\right]^4 = \left(\frac{5}{9}\right)^{x+2}$$

$$[(3)^6]^4 = (3)^{8x}$$

6)

$$25 \times 5^x = 5^7$$

$$49 \times 7^x = 7^{10}$$

7)

Simplify

$$2a - 3b + [-3a - 2b - \{a - c - (a + 2b)\}]$$

8)

Simplify

$$3a(a^2 - 2a + 5) - (2a^2)(5a - 3) - 7(2a^2 - 5a - 9)$$

$$(a+b)^2 = a^2 + 2ab + b^2$$

$$(a-b)^2 = a^2 - 2ab + b^2$$

9)

Find n if

$$\left[\frac{3}{5}\right]^4 * \left[\frac{3}{5}\right]^3 = \left[\frac{3}{5}\right]^{2n-1}$$

10)

Find n if

$$\left[\frac{2}{5}\right]^4 * \left[\frac{2}{5}\right]^5 = \left[\frac{2}{5}\right]^{2x-1}$$

11)

Expand

$$\left(3a + \frac{2}{3}b\right)^2$$

12)

Expand

$$\left(3a - \frac{2}{3}b\right)^2$$

13)

Expand

$$\left(7p - \frac{3}{5}q\right)^2$$

Simplify

14)

$$\frac{(-3)^3 \times 2^4 \times 5}{15 \times 3 \times 2^2}$$

$$\frac{(2^3)^2 \times (-3)^2}{(3^2)^2 \times 16}$$

15)

$$\frac{(2^{-3})^2 \times (3^2)^{-3}}{(2^{-2})^5 \times [(3)^3]^{-2}}$$

$$\left\{ \left(-\frac{2}{3} \right)^3 \times \left(-\frac{3}{4} \right)^2 \right\}^{-2}$$

16)

Expand

$$\left(\frac{p}{5} + \frac{q}{6} \right)^2$$

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17) Expand $\left(3x - \frac{1}{2x}\right)^2$

18) Expand $\left(3x + \frac{1}{2x}\right)^2$

19) Factorize $(4y^2 - 25)$

20) Factorize $(25x^2 - 36y^2)$

21) Factorize $(x^2y^2 - 64)$

22) Factorize $(x^4 - 81)$

23)

solve:

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

$x =$

24)

solve:

$$\frac{(x-4)}{7} - \frac{(x+4)}{5} = \frac{(x+3)}{7}$$

$x =$

25)

solve:

$$\frac{2}{3} (3x-2) = \frac{4}{5} (2x-3)$$

$x =$

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26)

solve: $\frac{3}{2}(2x-5) - \frac{5}{3}(1-x) = \frac{7x}{3}$

$x =$

27)

solve: $2x + \frac{11}{4} = \frac{x}{3} + 2$

$x =$

28)

solve: $3x - 2(2x-5) = 2(x+3) - 8$

$x =$

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29)

Two complementary angles differ by 8 degrees. What is the measure of the greater angle?

30)

One fourth of a number is increased by 7 and the result is multiplied by 3 and we get 36. What is the original number?

31)

Divide

(a)

b)

$$6mn \overline{) 12m^2n - 18nm^2 + 24}$$

$$3x^2 \overline{) 6x^5 + 18x^4 - 3x^2}$$

Q =

R =

Q =

R =

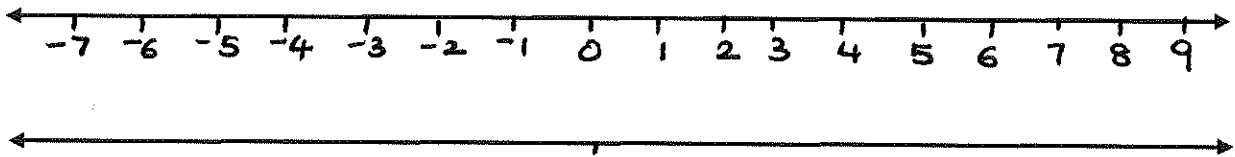
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32) Plot the linear equations on a graph paper

$2x - y = 7 \quad (a)$	$3x = 2y \quad (b)$																				
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33) Plot the inequalities on a number line

$x + 3 \geq 5 \quad (a)$	$-x - 2 < 3(2x - 7) \quad (b)$
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34) Plot the linear inequations on a graph paper

$x + 2y < 3 \quad (a)$	$x - 2y \geq 7 \quad (b)$																				
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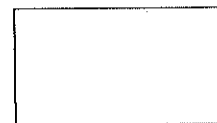
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35)

Find the slope of the line if the ordered pairs are given

$(-3, -5)(6, 11)$

$(3, 2)(-8, -2)$



36)

Construction:

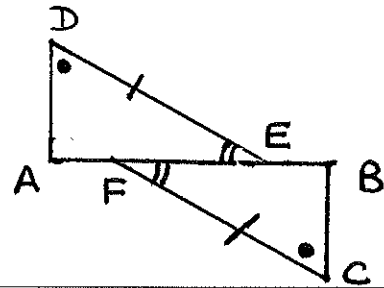
- a) Draw Quadrilateral WXYZ such that $YZ = 6.4$ cm, $ZW = 5.3$ cm and $XY = 4.2$ cm and $WX = 4.8$ cm $\angle W = 70^\circ$
- b) $\triangle ABC$ such that $AB = 5.7$ cm, $\angle A = 110^\circ$ and $\angle C = 35^\circ$

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37)

Given: $\angle D = \angle C$, $\angle E = \angle F$, $\overline{DE} \cong \overline{FC}$.

To Prove: $\triangle DAE$ and $\triangle CBF$ are congruent



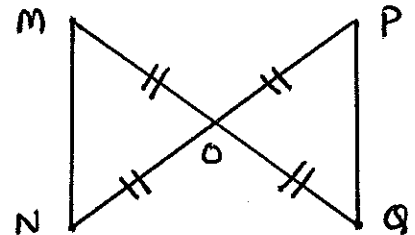
Proof:

Statement	Reason

38)

Given: $MO = OQ = OP = ON$

To Prove: $\triangle MNO \cong \triangle QPO$
and $\overline{MN} \cong \overline{PQ}$



Proof:

Statement	Reason

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39)

Name all the tests for congruence of two triangles

40)

find the distance between the points $(4, 9)$ and $(-6, 4)$

41)

Andy, Ben and Charlie can separately finish a work in 15 days, 20 days and 12 days each. If they all work together, in how many days will they be able to complete the work

42)

One tap can fill a canister in 4 hours alone and the other tap can fill the same canister in 6 hours alone. If both the taps are open together, how long will it take to fill the canister?

43)

Pam and Hans can together paint a room in 4 days. If Pam alone can paint the room in 6 days by herself. How many days will Hans take to paint the room alone?

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44) Andy, Ben and Charlie can together finish a work in 4 days. Andy alone can finish the work in 10 days. Ben alone can finish in 18 days. In how many days can Charlie alone finish the work?

45) A plane travels 2500 km, 1200 km and 500 km at the rate of 500 km/ hr, 400 km/ hr and 250 km/ hr respectively. Find the average speed of the whole journey.

46) A train 760 m long passes a platform 440m long in 40 seconds. Find the speed of the train in Km/hour.

47) Find the time taken by a train 180 m long, running at 72 km/hour in crossing an electric pole?

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48) A sum of \$1600 earns a simple interest of \$252 in 2 years 4 months. Find the rate of interest per year?

49) How long will it take for a sum of \$12600 invested at 9% per year at simple interest amount to \$15,624?

50) What sum of month will amount to \$1199 in 3 years at 12.5% per year simple interest?

51) In 4 years, \$6,500 amounts to \$8,840 at a certain rate of interest. In what time will \$1,600 amount to \$1,816 at the same rate?

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52)

Simplify: $\left[\left(\frac{5}{q} \right)^{-3} \times \left(\frac{3}{5} \right)^{-3} \right] \div \left[\left(\frac{q}{5} \right)^3 \times \left(\frac{5}{3} \right)^3 \right]$

53)

Simplify: $\left(\frac{-2pq^2}{3p^3q^4} \right)^{-2} \times \left(\frac{6p^2}{q^4} \right)$

54)

Expand: $\left(7p^2 + \frac{3}{2}q^2 \right)^2$

55)

Expand: $\left(\frac{1}{3}x - 3y \right)^2$

56)

The total cost of 3 tables and 2 chairs is \$745. If a table cost \$40 more than a chair, find the price of each?

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61)

A sum of \$500 is in the form of \$5 and \$10 notes. If the total number of notes is 90, find the number of \$10 notes

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62)

Solve the simultaneous equations: Find x and y

$$\begin{aligned}4x - 3y &= 0 \\ -4x + 1y &= -8\end{aligned}$$

$x =$	$y =$
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63)

Solve the simultaneous equations: Find x and y

$$\begin{aligned}8x + 7y &= 7 \\ 10x - 7y &= -7\end{aligned}$$

$x =$	$y =$
-------	-------

64)

Solve the simultaneous equations: Find x and y

$$\begin{aligned}8x + 6y &= 2 \\ 2x - 6y &= 3\end{aligned}$$

$x =$	$y =$
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65) Solve the simultaneous equations: Find x and y

$$x + 3y = 10$$

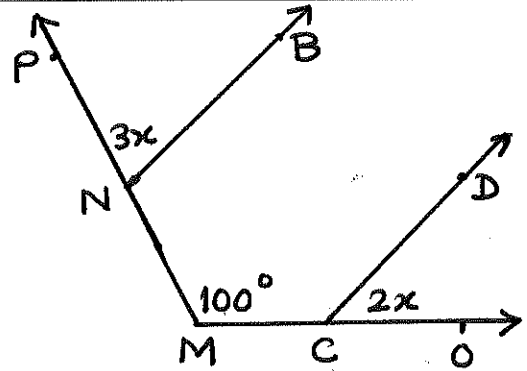
$$x - y = -2$$

$x =$	$y =$
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66) Name all the types of angles formed when two lines are intersected by a transversal

67) Given: $\vec{NB} \parallel \vec{CD}$, $\angle M = 100^\circ$

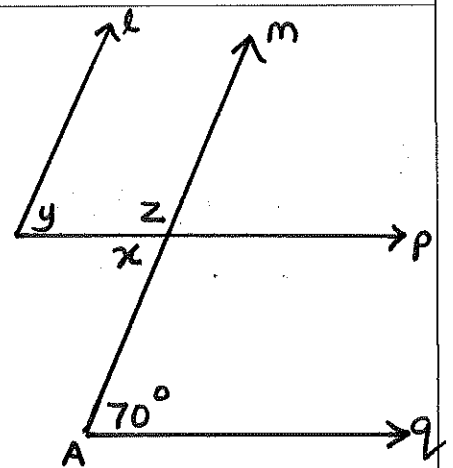
To Find: x



$x =$

68) Given: line $p \parallel$ line q , line $l \parallel$ line m

To Find: x, y, z



$y =$	$x =$	$z =$
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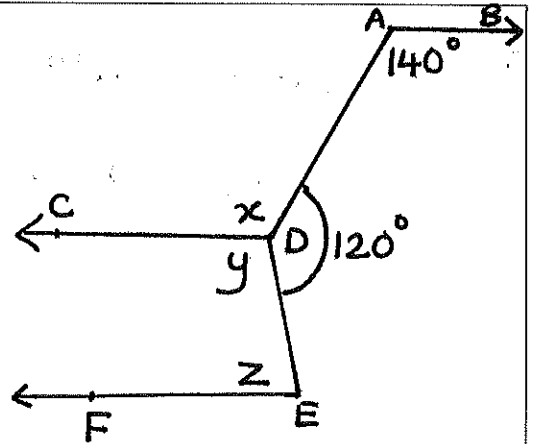
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69)

Given: $AB \parallel CD \parallel EF$

To Find: x, y, z

$x =$	$y =$	$z =$
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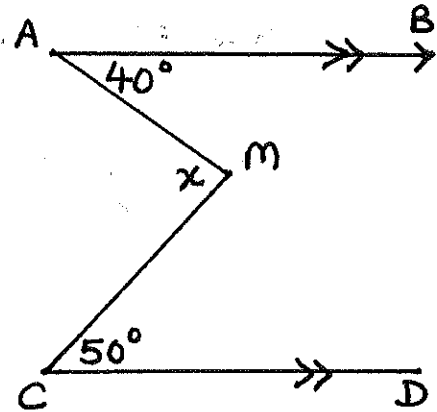


70)

Given: $AB \parallel CD$

To Find: x

$x =$

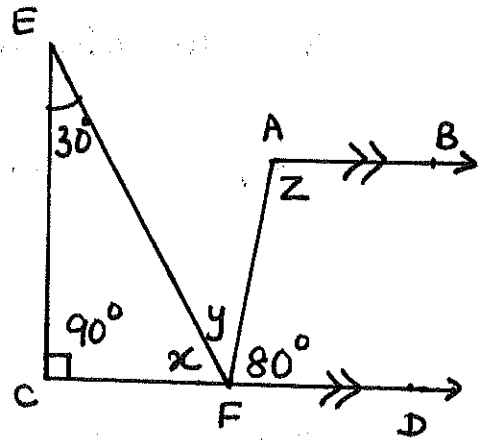


71)

Given: $\angle E = 30^\circ, \overline{BA} \parallel \overline{CD}$

To Find: x, y, z

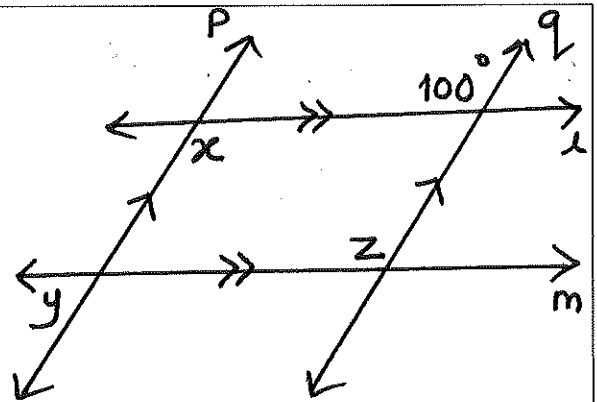
$x =$	$y =$	$z =$
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72)

Given: $p \parallel q$ $l \parallel m$

To Find: x, y, z

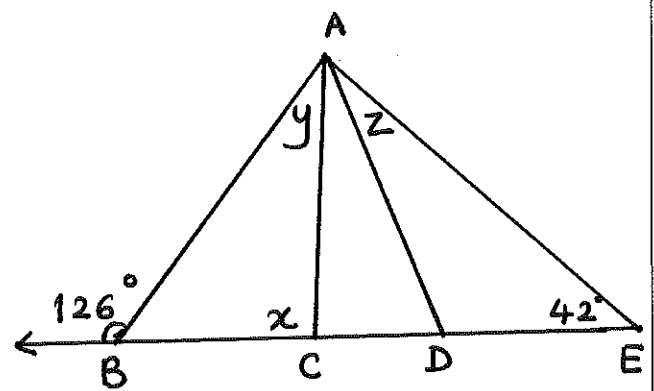


$x =$	$y =$	$z =$
-------	-------	-------

73)

Given: $\angle ACD = 87^\circ$ $\angle ADC = 75^\circ$

To Find: x, y, z

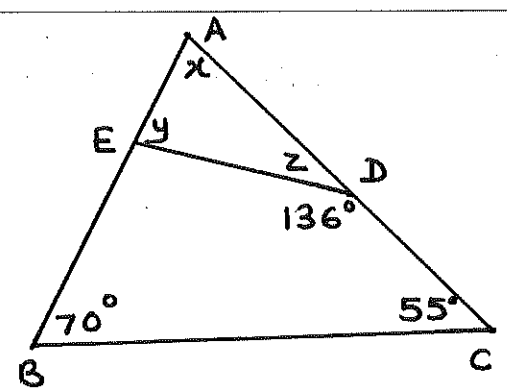


$x =$	$y =$	$z =$
-------	-------	-------

74)

Given: As shown in figure

To Find: x, y, z



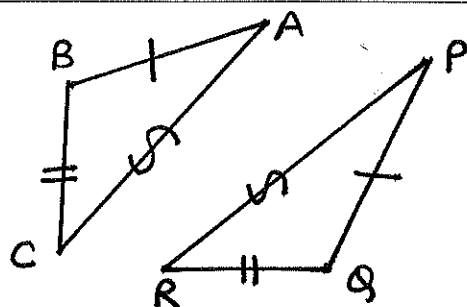
$x =$	$y =$	$z =$
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75)

Given: As marked in figure

To Prove: $\angle A \cong \angle P$



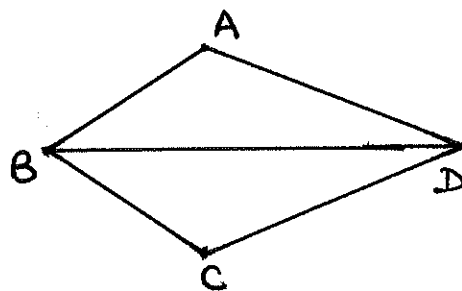
Proof:

	Statement	Reason

76)

Given: □ABCD is a kite,

To Prove: $\angle A \cong \angle C$



Proof:

	Statement	Reason

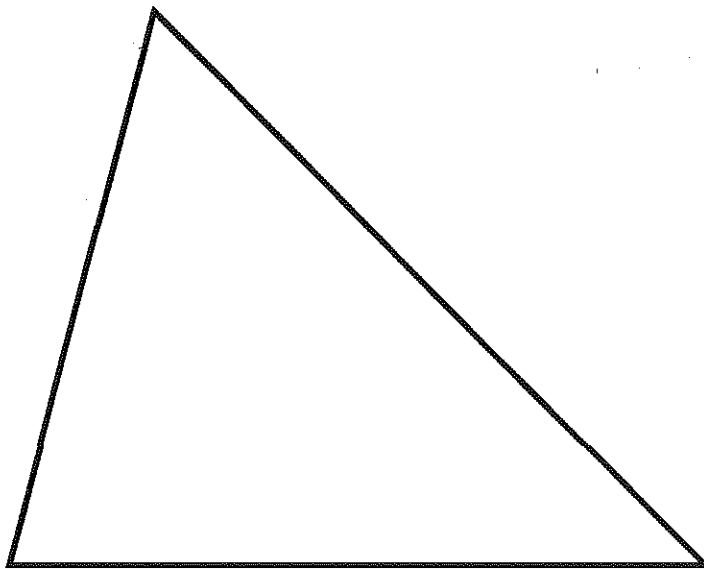
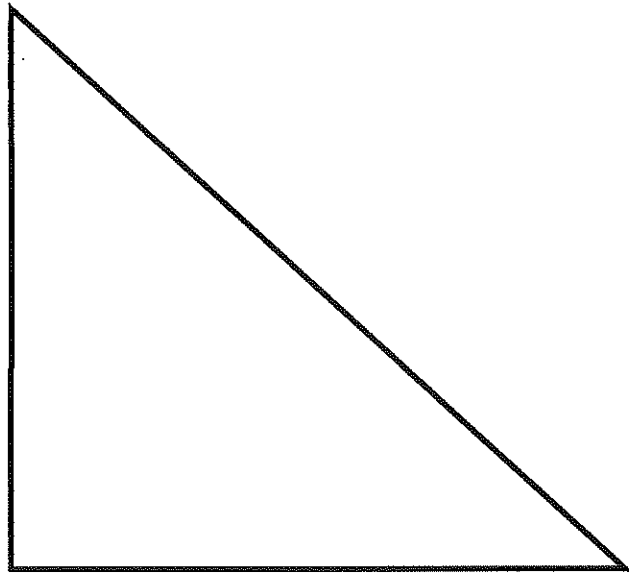
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77)

Draw the angle bisectors to all the three angles of the given triangles

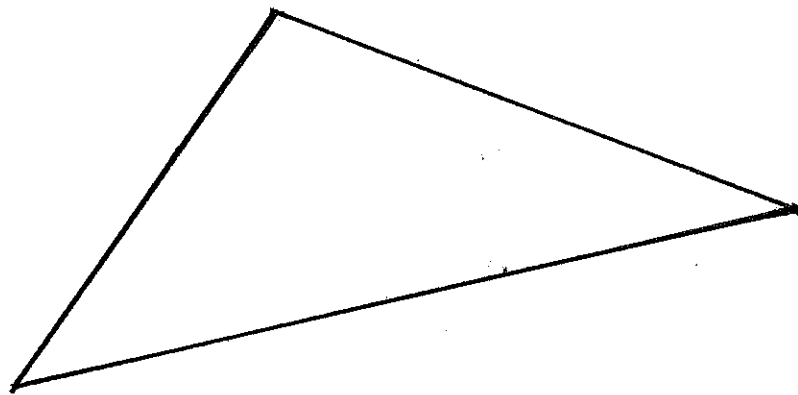
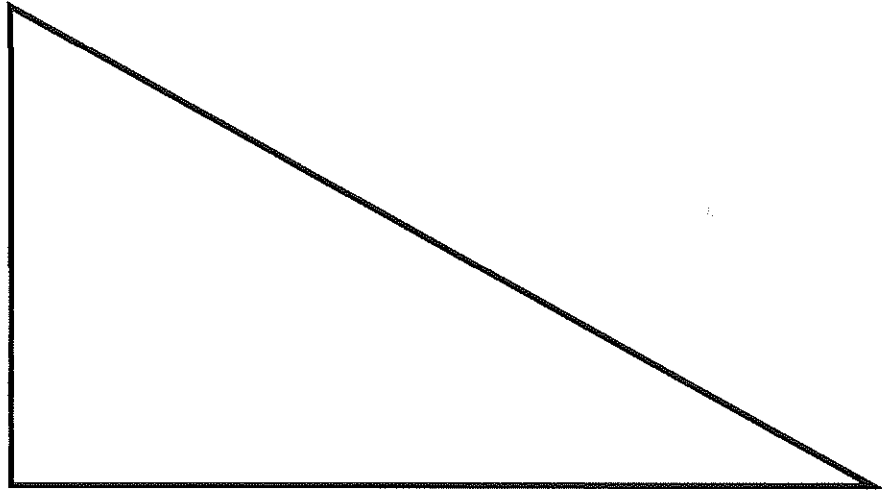
Important:

(The point of intersection of the angle bisectors of a triangle is called the incenter)



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- 78) Draw the perpendicular bisectors to all the three sides of the given triangles
Important:
(The point of intersection of the perpendicular bisectors of a triangle is called the circumcenter)



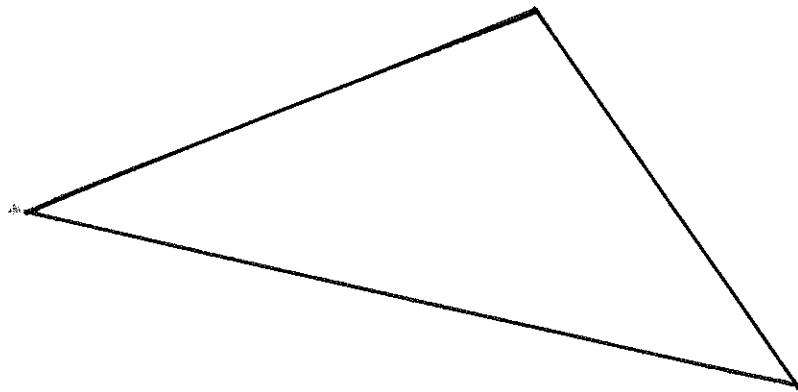
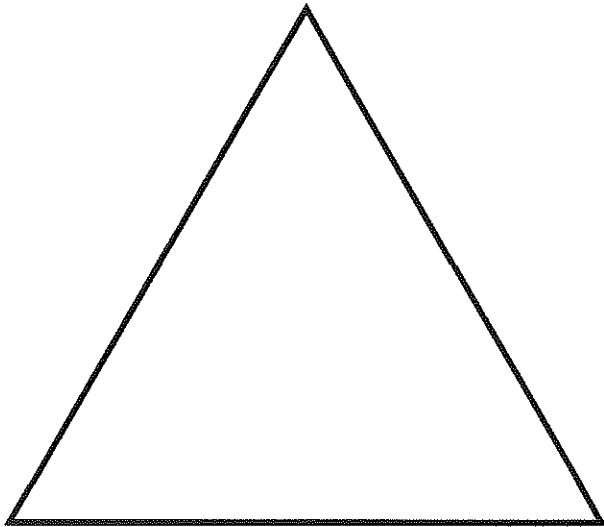
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79)

Draw the medians to all the three sides of the given triangles

Important:

(A median is a segment joining the vertex of a triangle with the midpoint of the opposite side. The point of intersection of the medians of a triangle is called the Centroid)



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80) Draw the following (Hint: Always draw a rough figure first)

1. DPQRS such that $PQ = 4.5\text{cm}$, $QR = 5.2\text{cm}$, $PS = 5.8\text{cm}$, $\angle Q = 75^\circ$, $\angle P = 120^\circ$

2. DABCD, $AB = 4.2\text{cm}$, $BC = 5.1\text{cm}$, $CD = 3.3\text{cm}$, $DA = 2.8\text{cm}$, $BD = 6\text{cm}$

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Draw the following (Hint: Always draw a rough figure first)

81)

3. Parallelogram EFGH, EF = 4.3 cm EH = 4 cm FH = 6.8 cm

4. Parallelogram, with one side = 4.4 cm, diagonals 5.6 cm and 8 cm
angle betⁿ the diagonals intersection = 30°

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82)

How many bricks of dimension 22.5 cm by 14 cm by 8 cm are needed to construct a wall 6m long, 3m high and 28cm thick?

83)

Find the volume of wood required to make a closed box of outer dimensions 60 cm by 52 cm by 27 cm with the thickness of wood 3.5 cm?

84)

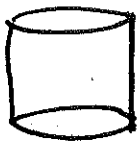
A path of length 325 m by 30 m is to be laid with concrete up to a depth of 40 cm. find the cost of laying the concrete at a rate of \$ 7 per cubic meter

85)

How many cube of 3 cm edge can be placed inside a cube of 18 cm edge?

86)

What is the total surface area of a right circular cylinder with height 5cm and diameter 4 cm



Total Surface
Area = $2\pi R(R+H)$

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87)

A large cube is formed by using the metal obtained by melting three small cubes of sides 3cm, 4cm and 5cm. What is the ratio of the total surface area of the smallest cube to the total surface area of the large cube

88)

find the mean weight of 50 boys from the following data table

Weight(kg)	50	52	54	56	60
# of boys	6	8	15	14	7

89)

find the average weight of 40 girls from the following data table

Weight(kg)	27	28	29	30	31
# of girls	6	12	10	8	4

90)

An equilateral triangle and a regular hexagon each have perimeter 12 units. The area of the hexagon is what percent of the area of the triangle?

$$\text{Area (Eq } \Delta) = \frac{\sqrt{3}}{4} (s)^2$$

$$A(\text{Regular Hexagon}) = \frac{3\sqrt{3}}{2} (s)^2$$

Printable 8th grade math test

Name _____

Date: _____

Solve the following problems

1.

a. $5^7 \times 5^{-10} =$

- A.
- $1/3$
- B.
- 5^{-2}
- C.
- $1/125$
- D.
- 5^{-17}

2.

If $2x^3 = 54$, what is x ?

- A. 1 B. 5 C. 2 D. 3

3.

a. The answer for $20000000 \times 3.5 \times 1000000$ in scientific notation is

(Hint: put 20000000 and 1000000 in scientific notation first)

- A.
- 7×10^{13}
- B.
- 3.5×10^{13}
- C.
- 2×10^{13}
- D.
- 7×10^{12}

b. 0.0004×4000 as a decimal is _____ and as a fraction is _____

4.

a. Which set contains only rational numbers?

- A. $\{\sqrt{49}, \sqrt{7}, 1/2, 9/5\}$
 B. $\{\sqrt{121}, 12/5, \sqrt{169}, 0.3333333333333\}$
 C. $\{4 \times \sqrt{5}, 2, \sqrt{100}, 0\}$ D. 0

b. Pull out all the irrational numbers from each set above and write them down here.

5.

To go to school, you have to walk 6 miles east and then 8 miles north ?

a. Draw a figure representing your path from home to school

b. Draw a line representing the shortest distance you could have taken. Then, calculate this distance

6.

The formula for the area of a circle is shown below

$$A = \pi \times r^2$$

a. Which of the following is the correct expression for r or the radius in terms of A and π ?

A. $r = \sqrt{(A / 2\pi)}$ B. $r = \sqrt{(2A / \pi)}$ C. $r = \sqrt{(\pi / A)}$ D. $r = \sqrt{(A / \pi)}$

b. Use the correct formula you found in part a and $\pi = 3$ to find r when $A = 48$ square feet.

$r =$ _____

7.

A company charges a flat fee of 1500 dollars to rent a yacht. In addition, renters must pay 100 dollars per hour.

a. Which equation shows the cost C to rent a yacht for h hours?

A. $C = 100 + 1500 \times h$ B. $C = 1500 \times h$ C. $C = 100 \times h + 1500$ D. $C = 100 \times h + 1500 \times h$

b. How much would it cost you to rent a yacht for 5 hours?

c. What is the slope of the cost? what is the y -intercept?

d. Using the answers for c, graph the cost on the coordinate system.

8.

Escalator 1 has a rise of 6 and a run of 4. Escalator 2 has a rise of 12 and a run of 6. Do the escalators have the same slope? Explain with math computation.

9.

Celita has a garden shaped like a square. How does the area change if she triples the length of each side?

A. The area of the garden is tripled B. The area of the garden is nonupled C. halved D. sextupled

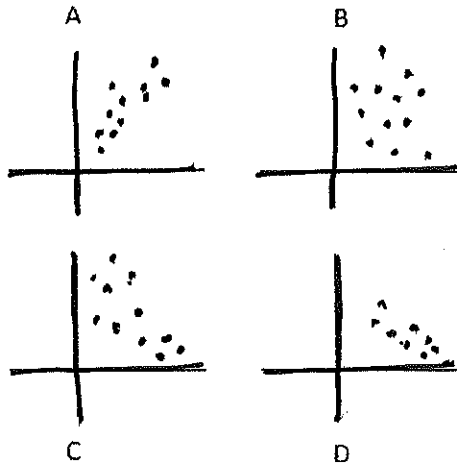
10.

Find the volume of a cone with a radius of 8 inches and a height of 3 inches.

(Hint: Use $v = 1/3 (\pi \times r^2 \times h)$)

11.

Pg (30)



a. Look at the figure above and then tell which graph(s) show the following correlation.

Positive correlation. _____

Negative correlation _____

No correlation _____

b. What kind of correlation is the following situation?

Number of gallons of gas in your car and the distance you can travel _____

Number of oranges you can eat and your height _____

Number of students going to a concert and the revenue generated. _____

c. If a scatter plot shows a negative correlation, which line of best fit could represent the scatter plot?

- A. $y = x - 5$ B. $y = -1000x + 5000$ C. $y = 100x - 7$ D. $y = 5$

12.

What is the equation of a line that has a slope of $\frac{3}{5}$ and a y-intercept of 2?

- A. $5y - 3x = 10$ B. $5x - 3y = 10$ C. $5y + 3x = 10$ D. $5x + 3y = 10$

13.

Triangle ABC has vertices (1,1), (3,5), and (5, 3). This triangle is dilated by a factor of 3. What are the images of the 3 vertices. Graph ABC and the image $A'B'C'$

14.

Pg (31)

The diagonal of a square computer screen is 50 inches. What is the perimeter of this TV? _____

15.

100 students take a survey to see what kind of ice cream people in America like to eat.

Which of the following will most likely flaw the survey?

- A. Some students were not born in the United States
- B. The students were not young enough
- C. The survey may not include people who travel 50 miles to get ice cream
- D. Choose students from a variety of schools.

16.

Which statement shows the similarity between the following 2 graphs?

$$4y = 2x + 0.5 \text{ and } 4y = 5x + 1/2$$

- A. The y-intercepts are the same
- B. The graphs are identical
- C. The x-intercepts are the same
- D. The slopes are the same

17.

Below are 3 equations

1) $4x - 2x + 1 = -1 + 2 + 2x$

2) $2x - 2 = 6 - 4 + 4x$

3) $5 + 3x = 2 + 3x + 5$

Solve all equations and then say

Which equation has 1 solution _____, 2 solutions _____, infinitely many solutions _____

18.

Solve for x.

Pg (32)

A tree is 8 feet tall and cast a shadow that is 6 feet. a. If your child's height is 4 feet, which equation can you use

to find the length of his shadow?

- A. $8/5 = 6/x$ B. $4/6 = x/8$ C. $8/4 = 6/x$ D. $x/4 = 8/6$

b. What is the length of the shadow? _____

19.

Solve the following simultaneous equations.

$$2x + 4y = 8$$

$$4x - 4y = 6$$

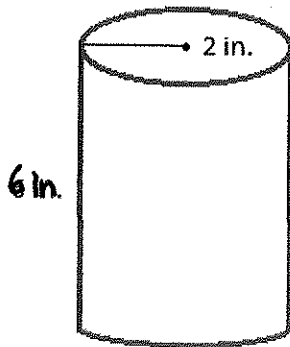
- a. by graphing
b. algebraically

20.

The cup below is $2/3$ full. How much water can the cup hold? _____

$$H = 6 \text{ inch}$$

$$R = 2 \text{ inch}$$



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Pg (33)

Continued to Next
page

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Solve the following system of equations

Column 1

$$\begin{aligned} -2x - y &= -9 \\ 5x - 2y &= 18 \end{aligned}$$

Column 2

$$\begin{aligned} y &= 5x - 7 \\ -3x - 2y &= -12 \end{aligned}$$

Column 3

$$\begin{aligned} -5x + y &= -2 \\ -3x + 6y &= -12 \end{aligned}$$

Solve the following system of equations

Column 1

$$\begin{aligned} -3x - 4y &= 2 \\ 3x + 3y &= -3 \end{aligned}$$

Column 2

$$\begin{aligned} -2x + 6y &= 6 \\ -x + y &= -5 \end{aligned}$$

Column 3

$$\begin{aligned} -5x - 8y &= 17 \\ -7y + 2x &= -17 \end{aligned}$$

61	<p>How many different ways can you arrange the letters in the word "MISTAKES" (Need calculator)</p> <div style="text-align: right; border: 1px solid black; width: 150px; height: 40px; margin: 20px auto;"></div>
62	<p>$(2x - 3y)^2$</p> <div style="text-align: right; border: 1px solid black; width: 400px; height: 40px; margin: 20px auto;"></div>
63	<p>$\left(2x + \frac{1}{x}\right)^2$</p> <div style="text-align: right; border: 1px solid black; width: 400px; height: 40px; margin: 20px auto;"></div>
64	<p>$(5m - y)(5m + y)$</p> <div style="text-align: right; border: 1px solid black; width: 400px; height: 40px; margin: 20px auto;"></div>
65	<p>The volume of a cylinder is 1650 cu.cm. find its height if the diameter of the base is 5 cm. (take $\pi = \frac{22}{7}$)</p> <div style="text-align: right; border: 1px solid black; width: 150px; height: 40px; margin: 20px auto;"></div>

66	A certain sum of money invested at simple interest amounts to \$1260 in 2 years and \$1350 in 5 years. What is the interest earned in 1 year? <div data-bbox="1096 535 1469 640" style="border: 1px solid black; width: 230px; height: 50px; margin-left: auto;"></div>		
67	The surface area of a cube is 384 sq.cm. What is the volume of the cube? <div data-bbox="1104 861 1477 966" style="border: 1px solid black; width: 230px; height: 50px; margin-left: auto;"></div>		
68	<table border="1" style="width: 100%;"><tr><td data-bbox="154 997 868 1848">Write as a decimal and state what kind of a decimal it is? $\frac{19}{11}$ <div data-bbox="259 1753 860 1837" style="border: 1px solid black; width: 370px; height: 40px; margin-left: auto;"></div></td><td data-bbox="868 997 1510 1848">When Amanda sold his condo at \$92,000 he made a profit of 15%, what was the cost price of the condo? (Need calculator) <div data-bbox="917 1743 1494 1827" style="border: 1px solid black; width: 355px; height: 40px; margin-left: auto;"></div></td></tr></table>	Write as a decimal and state what kind of a decimal it is? $\frac{19}{11}$ <div data-bbox="259 1753 860 1837" style="border: 1px solid black; width: 370px; height: 40px; margin-left: auto;"></div>	When Amanda sold his condo at \$92,000 he made a profit of 15%, what was the cost price of the condo? (Need calculator) <div data-bbox="917 1743 1494 1827" style="border: 1px solid black; width: 355px; height: 40px; margin-left: auto;"></div>
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