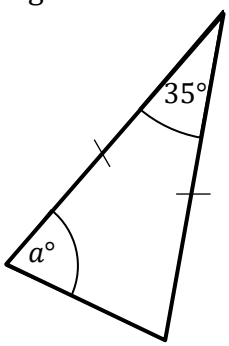
TASK

Date:

Question	Answer
Simplify $3a + 4b - 6a + 2b^2$	
Evaluate your answer above when $a = 3$ and $b = 7$	
Simplify $3 + 4(2d - 5)$	
Evaluate your answer above when $d = 5$	
Evaluate $8 + (-3) \times (-6)$	
Calculate the size of angle a 	
Solve $9 = 15 - 4x$	

Question	Answer
An orchard contains 45 trees. 27 are apple trees, the rest are pear trees. Find the percentage of apple trees.	
$A = 3^2 \times 5^3 \times 7$ $B = 3 \times 5^2 \times 11$ Find the HCF of A and B	
Evaluate $\frac{(5^3)^9}{5^{10} \times 5^{14}}$	
By rounding to 1 significant figures estimate an answer to $\frac{103.2 \times 48.7}{39.3 + 8.6}$	
Using this stem and leaf diagram: 1 | 2 3 4 2 | 1 1 6 7 9 3 | 0 4 7 4 | 2 6 9 5 | 1 1 | 2 means 12kg	
Mode	
Median	
Range	

Write all the numerical answers from the shaded boxes in this grid

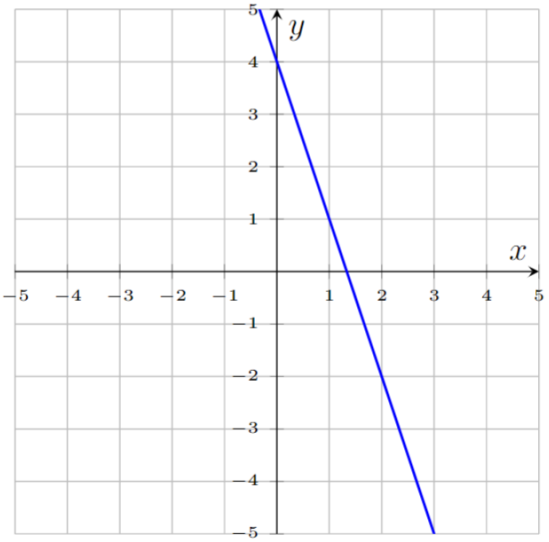
4 of your answers can be the angles in a quadrilateral.
Which four?

2 of your answers give the dimensions of a rectangles with perimeter 148 cm.
Which two?

3 of your answers give a trapezium of area 1072.5 cm^2.
Which three?

TASK

Date:

Question	Answer
In a bag of marbles, the ratio of red to blue marbles is 3:5. If there are 36 red marbles, how many blue marbles are there?	
Expand the expression: $(2x - 3)(x + 4)$	
Evaluate this expression when $x = -2$	
Calculate the size of one interior angle of a fifteen-sided polygon.	
An item costing £350 was decreased in price by 25% and then increased by 40%, what is the final cost of the item?	
Calculate the gradient of this line. 	
Gradient	

Question	Answer
Factorize the expression: $2t^2 + 6t$	
Evaluate this expression when $t = -4$	
Simplify the expression: $3b + 2 - 2(2b - 4)$	
Evaluate this expression when $b = 2.5$	
Find the nth term for the sequence $7, 12, 17, 22, \ldots$	
What is the 15th term of this sequence	
Solve the inequality: $2x + 1 > 5x - 3$	
Given that x is a positive integer write down the possible values for x	
Calculate the mean of this data	
Mean	

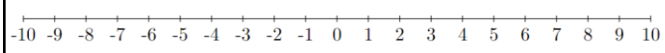
Age	Frequency	
13	5	
14	3	
15	2	
16	4	
17	3	
18	3	

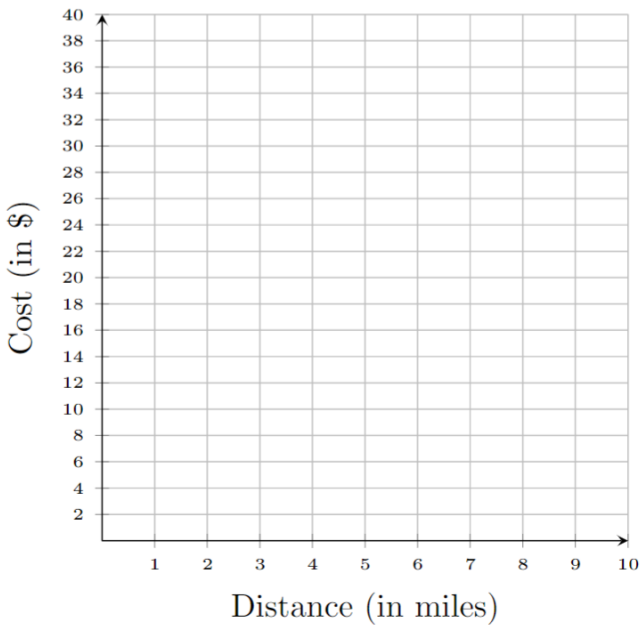
Write all the numerical answers from the shaded boxes in the grid

From these numbers, find five numbers which have. **Median=1, Range=91, Mean=13.8**

TASK

Date:

Question	Answer
A recipe requires 2.5 cups of flour for every 3.75 cups of sugar. If you have 6 cups of flour, how much sugar is needed?	
Factorise the expression $-5x^2 + 10x - 15$.	
Evaluate this expression when $x = -2.5$	
Solve $-10 < 3n + 2 < 29$	
Draw your solution on the number line 	
Given that n is an integer and also satisfies $n > 7$. Write down the value of n	
In a stock market, a share increased from \$62 to \$76.88. What is the percentage gain?	
Solve the equation $7 - 3(y + 1) = 3y + 3$	
Write down the reciprocal of y	

Question	Answer
The area of a trapezium is 72 cm^2, and the height is 6 cm. If the parallel sides are in a ratio of 3:5, what are the lengths of the parallel sides?	
The cost of a taxi ride is \$10 plus an additional \$2 for every mile travelled. Draw a graph to show this. 	
Find the equation of the line.	
A taxi ride costs \$18. What distance was the journey?	
If the sum of the interior angles of a polygon is 1440°, how many sides does the polygon have?	

Write all the numerical answers from the shaded boxes in the grid

You can write **three** of your numbers as ratios equivalent to 2 : 3 : 5

☐ : ☐ : ☐

Four of your numbers have a **median=8.5, range =6**

☐, ☐, ☐, ☐

What is the sum of your remaining **two** numbers?

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