PERSONALISED RETEST FOR Sample Student 1 (22 mins)

Username: samp1, Password: PPL

Topic 1: Volume of a Prism.

Last time you got 0 out of 3. This time you got ..... out of 3

Topic 2: Mixed Transformations.

Last time you got 0 out of 4. This time you got ..... out of 4

Topic 3: Angles in Parallel Lines.

Last time you got 0 out of 4. This time you got ..... out of 4

Topic 4: Inequalities Regions.

Last time you got 0 out of 4. This time you got ..... out of 4

Topic 5: More Difficult Rearranging Formulae.

Last time you got 0 out of 4. This time you got ..... out of 4
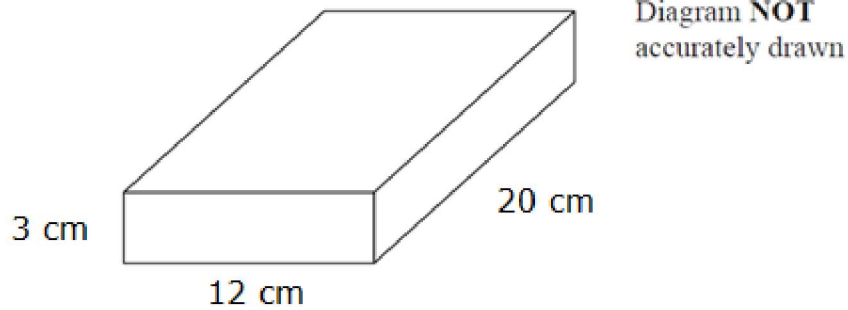
Topic 6: Recurring Decimals.

Last time you got 0 out of 3. This time you got ..... out of 3

For this test you got ..... out of 22 (marks)

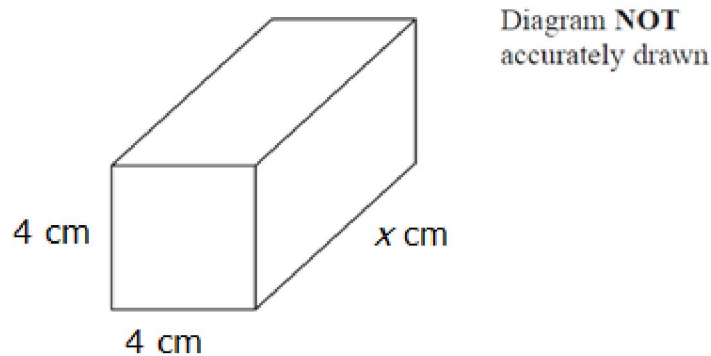I STILL NEED TO WORK ON: ....

Topic 1: Volume of a Prism.

5.   Kristen is sawing a piece of wood.
       The resulting block of wood will have the shape of a rectangular cuboid.

Diagram **NOT** accurately drawn

3 cm

12 cm

20 cm

Kristen is going to saw another piece of wood.

The new block of wood will have the shape of a rectangular cuboid too.
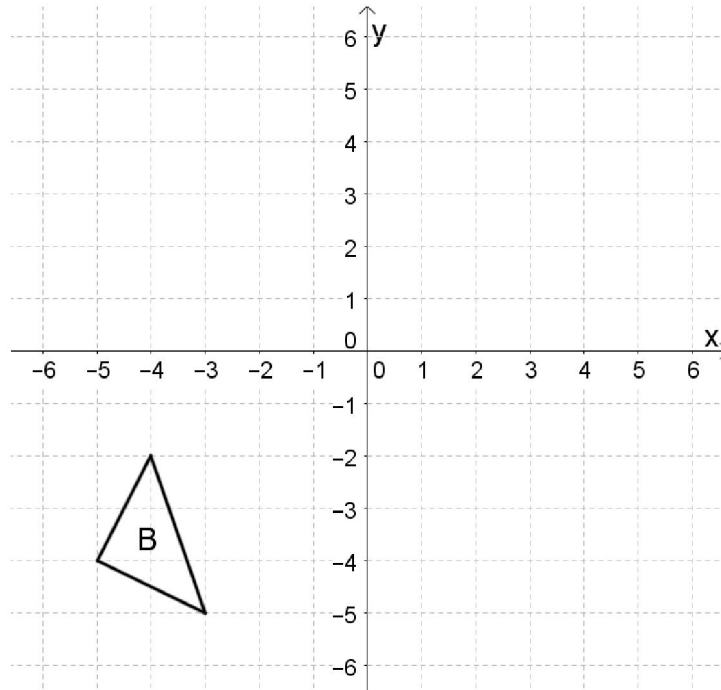One of the cross-sections of the cuboid is a square with sides 4 cm.

Diagram **NOT** accurately drawn

4 cm

4 cm

x cm

Kirsten wants the two blocks to have the same volume.

Determine the value of x.

....
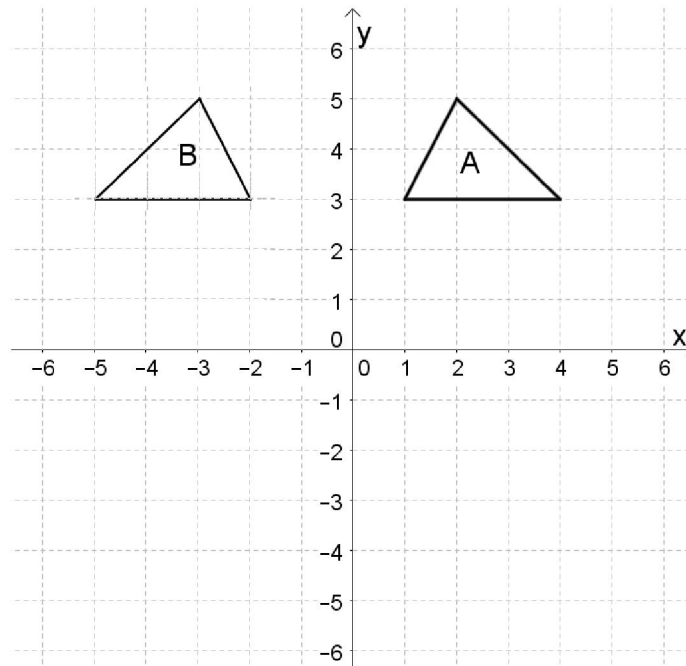
(Total 3 marks)

Topic 2: Mixed Transformations.

7.

(*a*) Rotate the given triangle **B** 180° clockwise around the origin.

(2)

(*b*) Which transformation transforms triangle **A** into triangle **B**?

....

....

(2)

(Total 4 marks)

Topic 3: Angles in Parallel Lines.

*12.

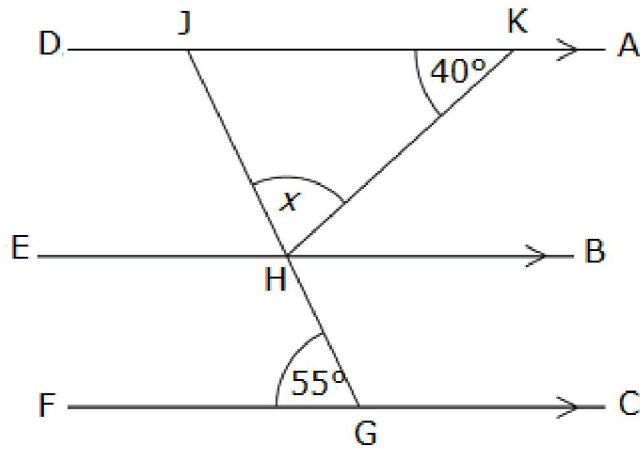Diagram **NOT** accurately drawn

GHJ is a straight line.
ADJK, BEH and *CFG* are parallel lines.

Angle *HKJ* = 40°
Angle *FGH* = 55°

Determine the value of *x*.
Explain every step in your calculation.

(Total 4 marks)

Topic 4: Inequalities Regions.

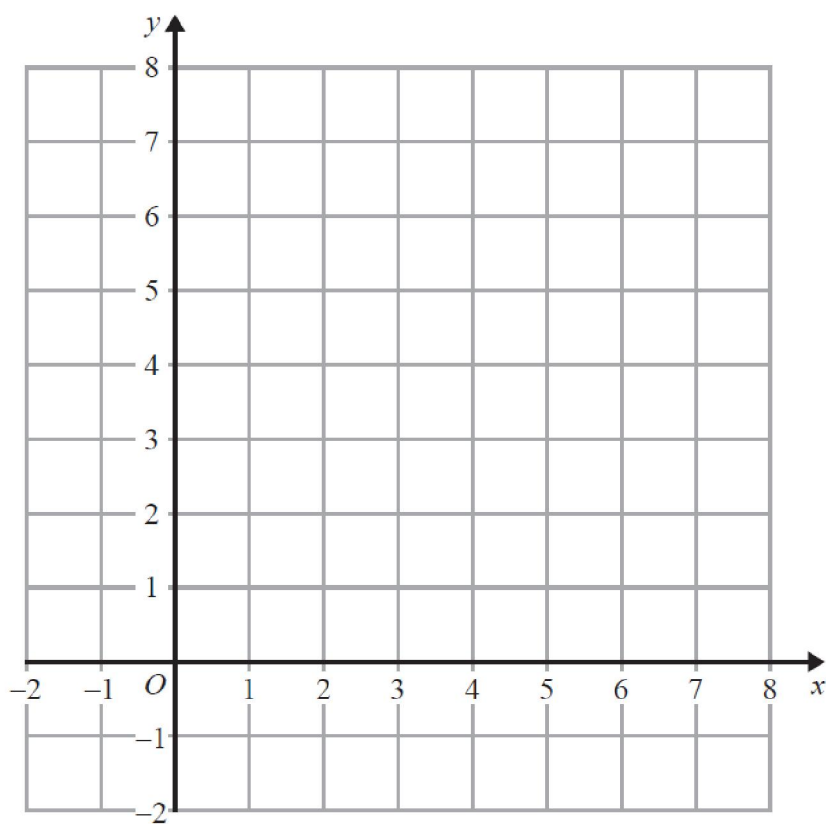**18.** Show the solutions that satisfy all three inequalities by shading the region containing the solutions.

$$2x + y > 5 \qquad\qquad y > x \qquad\qquad y < 5$$

Name the region containing the solutions **R**.

(Total 4 marks)

_____

Topic 5: More Difficult Rearranging Formulae.

20. Make b the subject of the formula:

$$a = \frac{5b + 7}{2 + b}$$

....

(Total is 4 marks)

_____

Topic 6: Recurring Decimals.

21. $a = 0.0\dot{1}\dot{2}$

Show algebraically that a can be rewritten as $\dfrac{2}{165}$

(Total 3 marks)

_____

End of Test

PERSONALISED RETEST FOR Sample Student 2 (20 mins)

Username: samp2, Password: PPL

Topic 1: Stem and Leaf.

Last time you got 1 out of 3. This time you got ..... out of 3

Topic 2: Volume of a Prism.

Last time you got 1 out of 3. This time you got ..... out of 3

Topic 3: Scattergraphs.

Last time you got 1 out of 3. This time you got ..... out of 3

Topic 4: Mixed Transformations.

Last time you got 1 out of 4. This time you got ..... out of 4

Topic 5: Probability and Relative Frequency.

Last time you got 1 out of 3. This time you got ..... out of 3

Topic 6: Angles in Parallel Lines.

Last time you got 1 out of 4. This time you got ..... out of 4

For this test you got ..... out of 20 (marks)

I STILL NEED TO WORK ON: ....

Topic 1: Stem and Leaf.

1. Given are the Math test scores of 20 students.

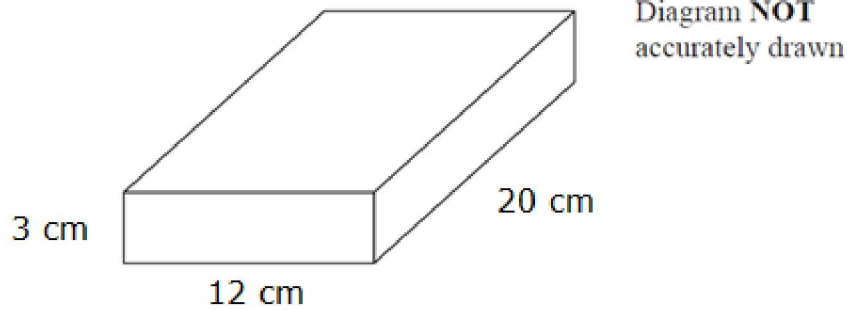| 81 | 75 | 56 | 98 | 45 | 79 | 92 | 58 | 62 | 68 |
| 52 | 49 | 89 | 76 | 86 | 71 | 69 | 85 | 75 | 59 |

(*a*) Show this information in an ordered stem and leaf diagram.

(3)

Topic 2: Volume of a Prism.

5.   Kristen is sawing a piece of wood.
        The resulting block of wood will have the shape of a rectangular cuboid.

Diagram **NOT** accurately drawn

3 cm   12 cm   20 cm

Kristen is going to saw another piece of wood.

The new block of wood will have the shape of a rectangular cuboid too.
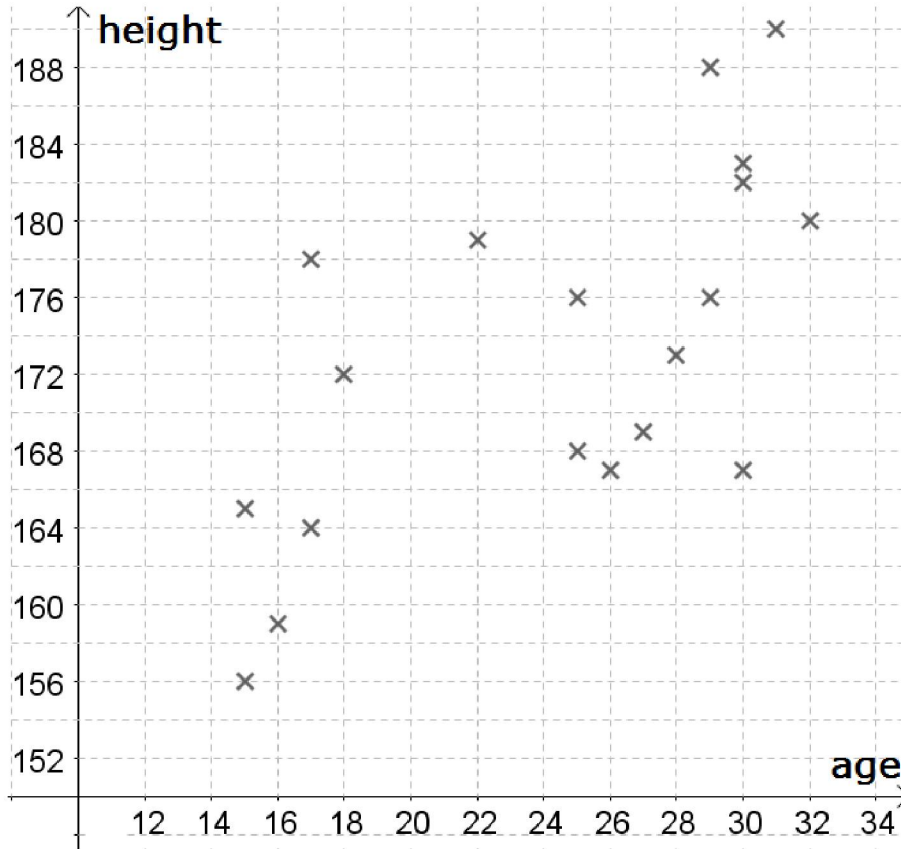One of the cross-sections of the cuboid is a square with sides 4 cm.

Diagram **NOT** accurately drawn

4 cm   4 cm x cm

Kirsten wants the two blocks to have the same volume.

Determine the value of x.

....
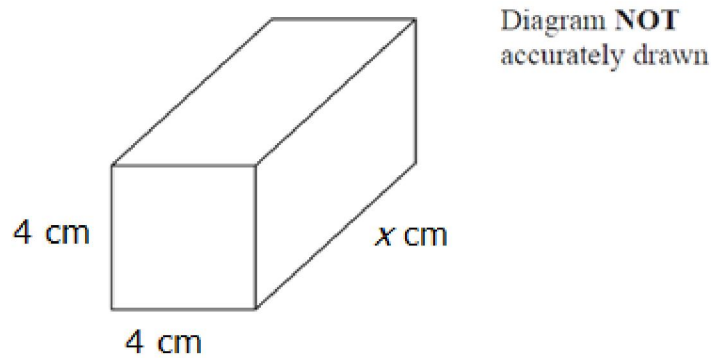
(Total 3 marks)

Topic 3: Scattergraphs.

6. The height of plants according to their age is shown in the following scatter graph.

(a) Describe the relationship between the age of the plant and its height.

....

....

(1)

Another plant is 20 years old.

(b) Estimate the height of this plant.

.....................................cm

(2)

(Total 3 marks)

Topic 4: Mixed Transformations.

7.

(*a*) Rotate the given triangle **B** 180° clockwise around the origin.

(2)

(*b*) Which transformation transforms triangle **A** into triangle **B**?

....

....

(2)

(Total 4 marks)

Topic 5: Probability and Relative Frequency.

11. Mark needs money to buy a new bike.
He creates a new game that people can play.

Mark designs a spinner divided into 6 equally sized pieces.
Three pieces are colored red, two pieces green and one piece blue.

Every person will spin the spinner once.
That person will win the game if the spinner lands on red.

The game is played once by Mohammed.

(*a*) What is the probability that Mohammed wins the game?

RETEST QUESTION

One game costs 75p.
If the person playing wins, they will get £ 1.

Mark expects 300 people to play the game.

11 (*b*) How much money do you expect Marc to raise?

....
(3)

(Total 5 marks)
_____

Topic 6: Angles in Parallel Lines.

*12.
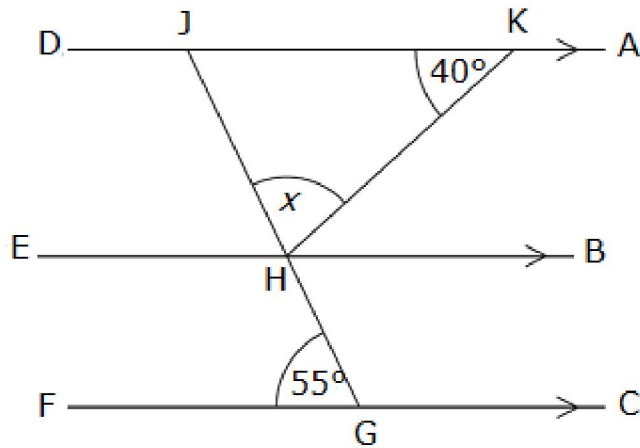

Diagram **NOT** accurately drawn

GHJ is a straight line.
ADJK, BEH and *CFG* are parallel lines.

Angle *HKJ* = 40°
Angle *FGH* = 55°

Determine the value of *x*.
Explain every step in your calculation.

(Total 4 marks)

End of Test

PERSONALISED RETEST FOR Sample Student 3 (15 mins)

Username: samp3, Password: PPL

Topic 1: Stem and Leaf.

Last time you got 1 out of 3. This time you got ..... out of 3

Topic 2: Substitution.

Last time you got 0 out of 1. This time you got ..... out of 1

Topic 3: Questionnaires.

Last time you got 0 out of 2. This time you got ..... out of 2

Topic 4: Volume of a Prism.

Last time you got 0 out of 3. This time you got ..... out of 3

Topic 5: Scattergraphs.

Last time you got 0 out of 3. This time you got ..... out of 3

Topic 6: Probability and Relative Frequency.

Last time you got 1 out of 3. This time you got ..... out of 3

For this test you got ..... out of 15 (marks)

I STILL NEED TO WORK ON: ....

Topic 1: Stem and Leaf.

1. Given are the Math test scores of 20 students.

81	75	56	98	45	79	92	58	62	68
52	49	89	76	86	71	69	85	75	59

(*a*) Show this information in an ordered stem and leaf diagram.

(3)

Topic 2: Substitution.

2. $x = 2$

(a) Determine $10x^2$

....
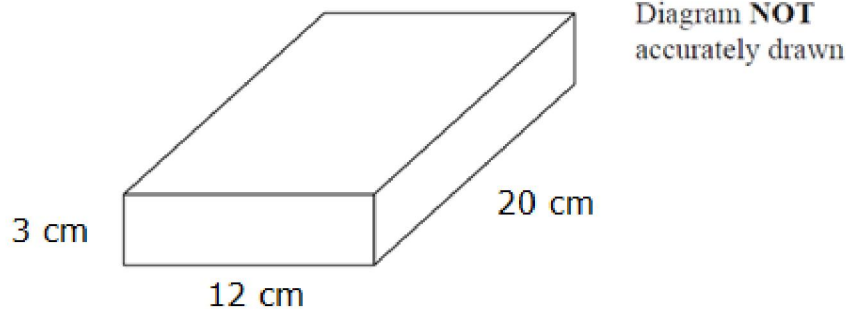**(1)**

Topic 3: Questionnaires.

3.   Brian works for the local pet store.
He would like to know how often people visit pet stores in his area.
He plans to conduct a survey.

Create an appropriate question that Brian can use in the survey.

(Total 2 marks)
_____

Topic 4: Volume of a Prism.

5. Kristen is sawing a piece of wood.
The resulting block of wood will have the shape of a rectangular cuboid.

Diagram **NOT** accurately drawn

3 cm

20 cm

12 cm

Kristen is going to saw another piece of wood.

The new block of wood will have the shape of a rectangular cuboid too.
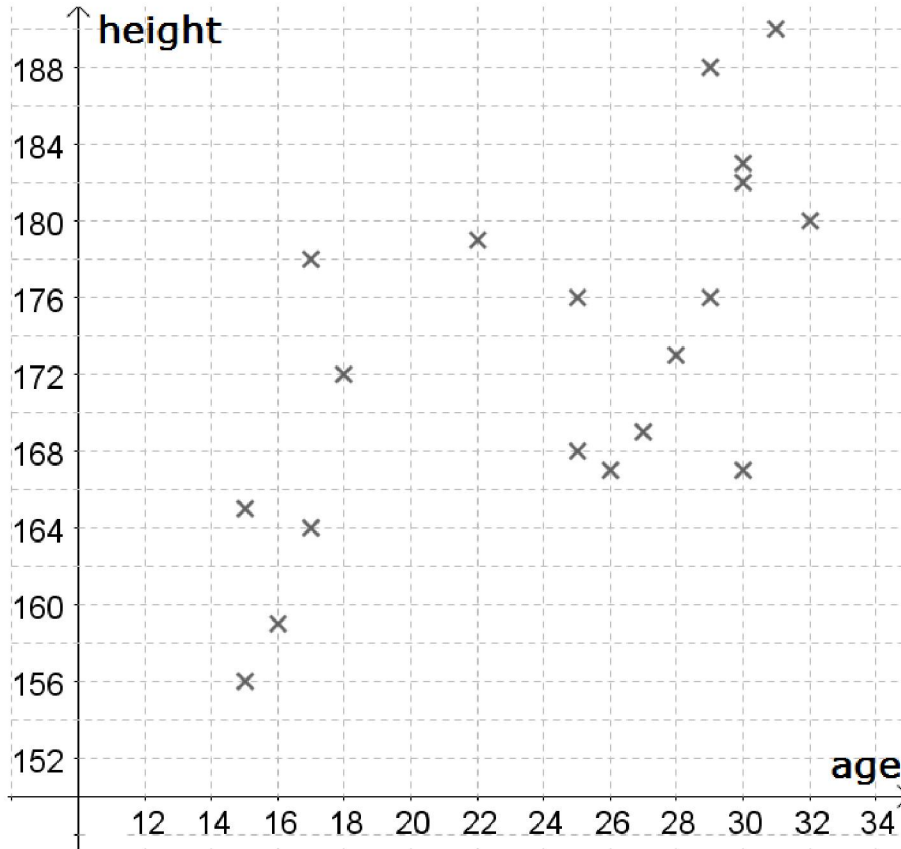One of the cross-sections of the cuboid is a square with sides 4 cm.

Diagram **NOT** accurately drawn

4 cm

x cm

4 cm

Kirsten wants the two blocks to have the same volume.

Determine the value of x.

....

(Total 3 marks)

Topic 5: Scattergraphs.

6.   The height of plants according to their age is shown in the following scatter graph.

(*a*) Describe the relationship between the age of the plant and its height.

....

....

(1)

Another plant is 20 years old.

(*b*) Estimate the height of this plant.

.....................................cm

(2)

(Total 3 marks)

Topic 6: Probability and Relative Frequency.

11. Mark needs money to buy a new bike.
He creates a new game that people can play.

Mark designs a spinner divided into 6 equally sized pieces.
Three pieces are colored red, two pieces green and one piece blue.

Every person will spin the spinner once.
That person will win the game if the spinner lands on red.

The game is played once by Mohammed.

(*a*) What is the probability that Mohammed wins the game?

RETEST QUESTION

One game costs 75p.
If the person playing wins, they will get £ 1.

Mark expects 300 people to play the game.

11 (*b*) How much money do you expect Marc to raise?

....
(3)

(Total 5 marks)
_____

End of Test

PERSONALISED RETEST FOR

Sample Student 4 (20 mins)

Username: samp4, Password: PPL

Topic 1: Probability.

Last time you got 0 out of 2. This time you got ..... out of 2

Topic 2: Angles in Parallel Lines.

Last time you got 0 out of 4. This time you got ..... out of 4

Topic 3: Angles in Polygons.

Last time you got 0 out of 4. This time you got ..... out of 4

Topic 4: Inequalities Regions.

Last time you got 0 out of 4. This time you got ..... out of 4

Topic 5: Proof.

Last time you got 0 out of 3. This time you got ..... out of 3

Topic 6: Solving Quadratics by Factorisation.

Last time you got 0 out of 3. This time you got ..... out of 3

For this test you got ..... out of 20 (marks)

I STILL NEED TO WORK ON: ....

Topic 1: Probability.

11. Mark needs money to buy a new bike.
He creates a new game that people can play.

Mark designs a spinner divided into 6 equally sized pieces.
Three pieces are colored red, two pieces green and one piece blue.

Every person will spin the spinner once.
That person will win the game if the spinner lands on red.

The game is played once by Mohammed.

(*a*) What is the probability that Mohammed wins the game?

....
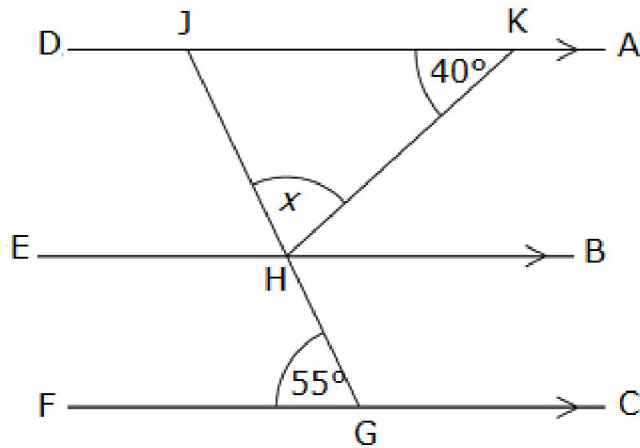**(2)**

Topic 2: Angles in Parallel Lines.

*12.

Diagram **NOT** accurately drawn

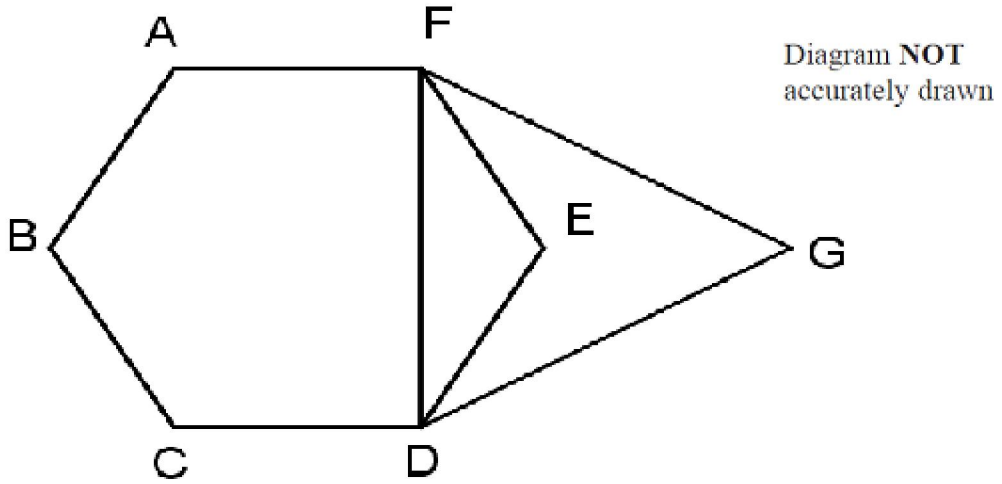*GHJ* is a straight line.
ADJK, BEH and *CFG* are parallel lines.

Angle *HKJ* = 40°
Angle *FGH* = 55°

Determine the value of *x*.
Explain every step in your calculation.

(Total 4 marks)

Topic 3: Angles in Polygons.

17.

A   F   Diagram **NOT** accurately drawn

ABCDEF is a regular hexagon.
DFG is an equilateral triangle.

Determine angle *EFG*.
Show all steps in your calculations.

....°

(Total 4 marks)

Topic 4: Inequalities Regions.

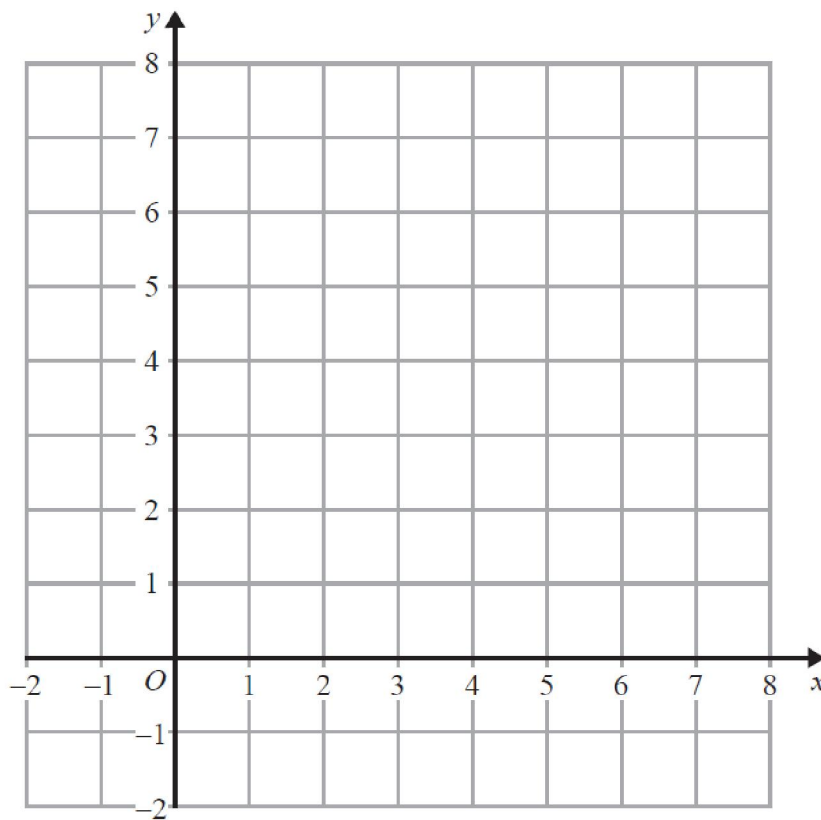**18.** Show the solutions that satisfy all three inequalities by shading the region containing the solutions.

$$2x + y > 5 \qquad\qquad y > x \qquad\qquad y < 5$$

Name the region containing the solutions **R**.

(Total 4 marks)

_____

Topic 5: Proof.

19. A bag contains n marbles.
3 of the marbles are gold.
The other marbles are red.

Kate takes a marble from the bag at random.
She doesn't return the marble to the bag.

Then Kate takes a marble from the bag at random.
She doesn't return the marble to the bag.

Kate has a probability of $\dfrac{1}{5}$ to draw two gold marble.

(a) Show that $n^2 - n - 30 = 0$

(3)

Topic 6: Solving Quadratics by Factorisation.

RETEST QUESTION

19. A bag contains n marbles.
3 of the marbles are gold.
The other marbles are red.

Kate takes a marble from the bag at random.
She doesn't return the marble to the bag.

Then Kate takes a marble from the bag at random.
She doesn't return the marble to the bag.

Kate has a probability of $\dfrac{1}{5}$ to draw two gold marble.

19. (*b*) Solve the equation $n^2 - n - 30 = 0$.

....

(3)

(Total 6 marks)

_____

End of Test

PERSONALISED RETEST FOR

Sample Student 5 (16 mins)

Username: samp5, Password: PPL

Topic 1: Stem and Leaf.

Last time you got 0 out of 3. This time you got ..... out of 3

Topic 2: Substitution.

Last time you got 0 out of 1. This time you got ..... out of 1

Topic 3: Questionnaires.

Last time you got 0 out of 2. This time you got ..... out of 2

Topic 4: Volume of a Prism.

Last time you got 1 out of 3. This time you got ..... out of 3

Topic 5: Scattergraphs.

Last time you got 1 out of 3. This time you got ..... out of 3

Topic 6: Mixed Transformations.

Last time you got 0 out of 4. This time you got ..... out of 4

For this test you got ..... out of 16 (marks)

I STILL NEED TO WORK ON: ....

Topic 1: Stem and Leaf.

1. Given are the Math test scores of 20 students.

81	75	56	98	45	79	92	58	62	68
52	49	89	76	86	71	69	85	75	59

(*a*) Show this information in an ordered stem and leaf diagram.

(3)

Topic 2: Substitution.

2. $x = 2$

(a) Determine $10x^2$

....
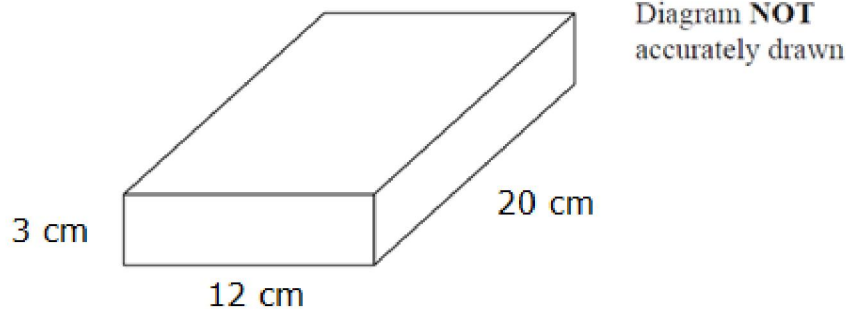**(1)**

Topic 3: Questionnaires.

3.   Brian works for the local pet store.
He would like to know how often people visit pet stores in his area.
He plans to conduct a survey.

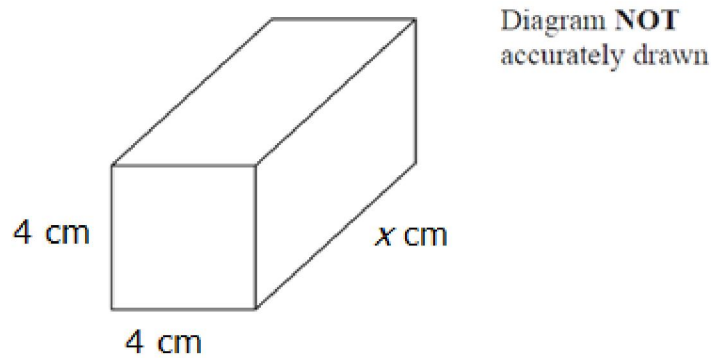Create an appropriate question that Brian can use in the survey.

(Total 2 marks)

_____

Topic 4: Volume of a Prism.

5.   Kristen is sawing a piece of wood.
The resulting block of wood will have the shape of a rectangular cuboid.

Diagram **NOT** accurately drawn

3 cm   12 cm   20 cm

Kristen is going to saw another piece of wood.

The new block of wood will have the shape of a rectangular cuboid too.
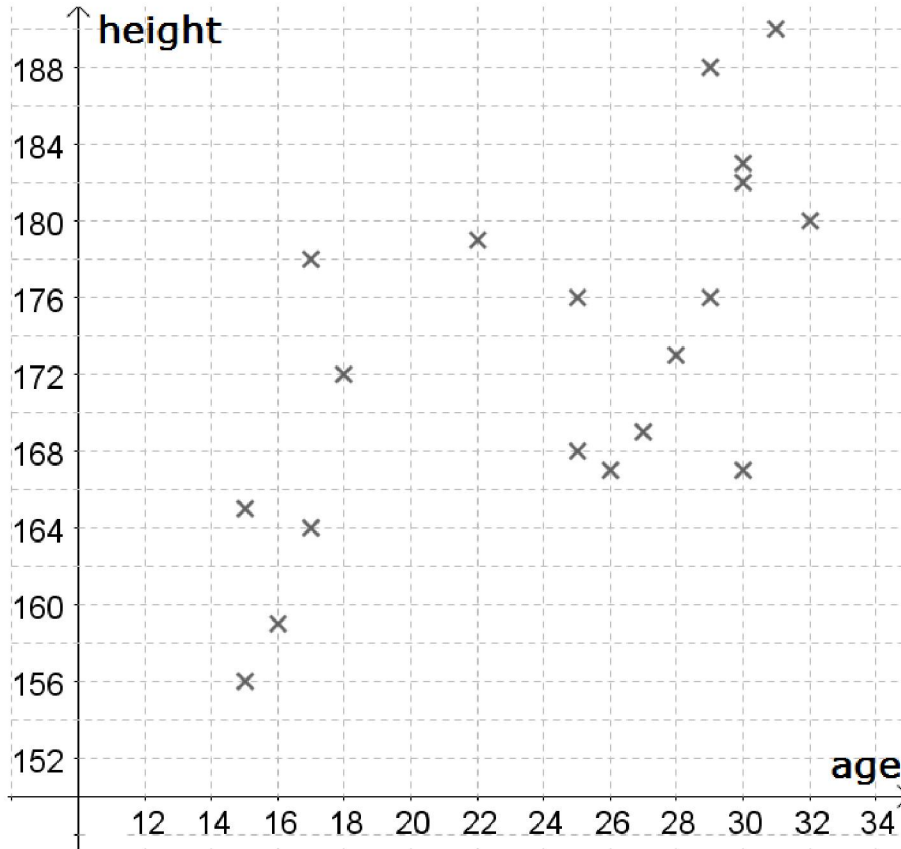One of the cross-sections of the cuboid is a square with sides 4 cm.

Diagram **NOT** accurately drawn

4 cm   4 cm x cm

Kirsten wants the two blocks to have the same volume.

Determine the value of x.

....

(Total 3 marks)

Topic 5: Scattergraphs.

6. The height of plants according to their age is shown in the following scatter graph.

(*a*) Describe the relationship between the age of the plant and its height.

....

....

(1)

Another plant is 20 years old.

(*b*) Estimate the height of this plant.

....cm

(2)

(Total 3 marks)

Topic 6: Mixed Transformations.

7.

(*a*) Rotate the given triangle **B** 180° clockwise around the origin.

(2)

(*b*) Which transformation transforms triangle **A** into triangle **B**?

....

....

(2)

(Total 4 marks)

End of Test

PERSONALISED RETEST FOR

Sample Student 6 (16 mins)

Username: samp6, Password: PPL

Topic 1: Stem and Leaf.

Last time you got 1 out of 3. This time you got ..... out of 3

Topic 2: Substitution.

Last time you got 0 out of 1. This time you got ..... out of 1

Topic 3: Scattergraphs.

Last time you got 0 out of 3. This time you got ..... out of 3

Topic 4: Probability.

Last time you got 0 out of 2. This time you got ..... out of 2

Topic 5: Angles in Parallel Lines.

Last time you got 1 out of 4. This time you got ..... out of 4

Topic 6: Compound Measures.

Last time you got 1 out of 3. This time you got ..... out of 3

For this test you got ..... out of 16 (marks)

I STILL NEED TO WORK ON: ....

Topic 1: Stem and Leaf.

1. Given are the Math test scores of 20 students.

81	75	56	98	45	79	92	58	62	68
52	49	89	76	86	71	69	85	75	59

(*a*) Show this information in an ordered stem and leaf diagram.

(3)

Topic 2: Substitution.

2. $x = 2$

(a) Determine $10x^2$

....
(1)

Topic 3: Scattergraphs.

6.   The height of plants according to their age is shown in the following scatter graph.

(*a*) Describe the relationship between the age of the plant and its height.

....

....

(1)

Another plant is 20 years old.

(*b*) Estimate the height of this plant.

....................................cm

(2)

(Total 3 marks)

Topic 4: Probability.

11. Mark needs money to buy a new bike.
He creates a new game that people can play.

Mark designs a spinner divided into 6 equally sized pieces.
Three pieces are colored red, two pieces green and one piece blue.

Every person will spin the spinner once.
That person will win the game if the spinner lands on red.

The game is played once by Mohammed.

(*a*) What is the probability that Mohammed wins the game?

....
(2)

Topic 5: Angles in Parallel Lines.

*12.

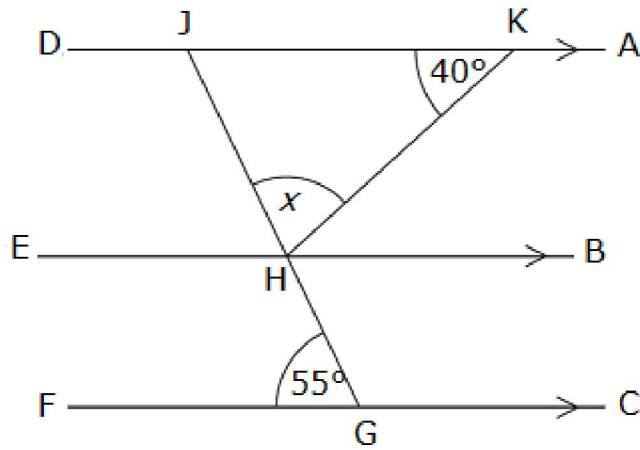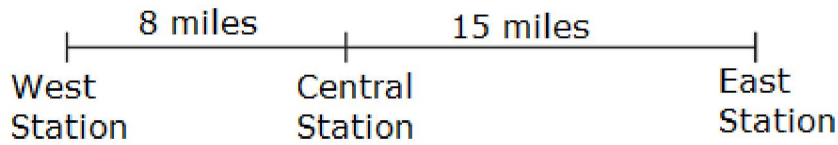Diagram **NOT** accurately drawn

GHJ is a straight line.
ADJK, BEH and *CFG* are parallel lines.

Angle *HKJ* = 40°
Angle *FGH* = 55°

Determine the value of *x*.
Explain every step in your calculation.

(Total 4 marks)

Topic 6: Compound Measures.

14. West station is 8 miles from Central station.
East station is 15 miles from Central station.

Sheila will take the train from West to Central station
Afterwards she will travel to East station.

Sheila's train departs from West Station at 11 00.
The average speed of the train from West to Central station is 64 miles per hour.

Sheila wants to arrive at East station before 11 20.

Determine the average speed at which the train needs to travel to arrive before 11 20.

....mph

(Total 3 marks)

End of Test

PERSONALISED RETEST FOR

Sample Student 7 (17 mins)

Username: samp7, Password: PPL

Topic 1: Substitution.

Last time you got 0 out of 1. This time you got ..... out of 1

Topic 2: Mixed Transformations.

Last time you got 1 out of 4. This time you got ..... out of 4

Topic 3: Probability.

Last time you got 0 out of 2. This time you got ..... out of 2

Topic 4: Probability and Relative Frequency.

Last time you got 1 out of 3. This time you got ..... out of 3

Topic 5: Compound Measures.

Last time you got 0 out of 3. This time you got ..... out of 3

Topic 6: Angles in Polygons.

Last time you got 1 out of 4. This time you got ..... out of 4

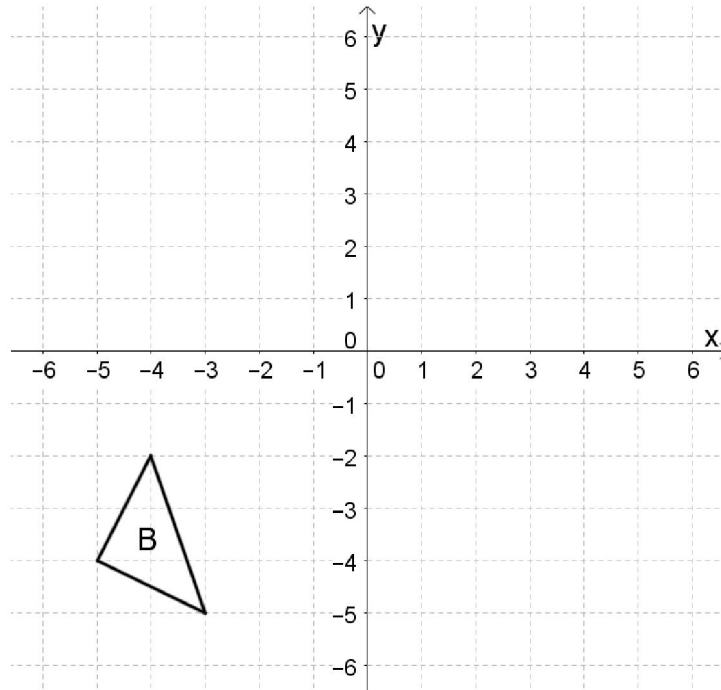For this test you got ..... out of 17 (marks)

I STILL NEED TO WORK ON: ....

Topic 1: Substitution.

2. $x = 2$

(a) Determine $10x^2$

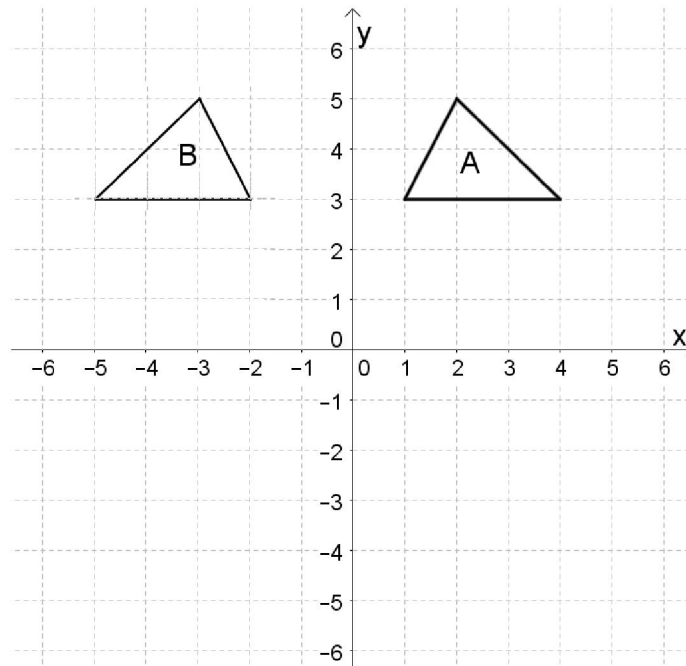...
(1)

Topic 2: Mixed Transformations.

7.

(*a*) Rotate the given triangle **B** 180° clockwise around the origin.

(2)

(*b*) Which transformation transforms triangle **A** into triangle **B**?

....

....

(2)

(Total 4 marks)

Topic 3: Probability.

11. Mark needs money to buy a new bike.
He creates a new game that people can play.

Mark designs a spinner divided into 6 equally sized pieces.
Three pieces are colored red, two pieces green and one piece blue.

Every person will spin the spinner once.
That person will win the game if the spinner lands on red.

The game is played once by Mohammed.

(*a*) What is the probability that Mohammed wins the game?

....

(2)

Topic 4: Probability and Relative Frequency.

11.   Mark needs money to buy a new bike.
He creates a new game that people can play.

Mark designs a spinner divided into 6 equally sized pieces.
Three pieces are colored red, two pieces green and one piece blue.

Every person will spin the spinner once.
That person will win the game if the spinner lands on red.

The game is played once by Mohammed.

(*a*) What is the probability that Mohammed wins the game?

RETEST QUESTION

One game costs 75p.
If the person playing wins, they will get £ 1.

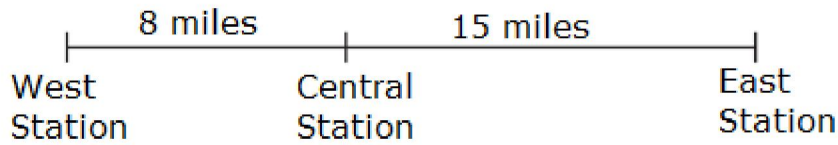Mark expects 300 people to play the game.

11 (*b*) How much money do you expect Marc to raise?

....
                                                                          (3)
                                                          (Total 5 marks)
_____

Topic 5: Compound Measures.

14. West station is 8 miles from Central station.
East station is 15 miles from Central station.

Sheila will take the train from West to Central station
Afterwards she will travel to East station.

Sheila's train departs from West Station at 11 00.
The average speed of the train from West to Central station is 64 miles per hour.

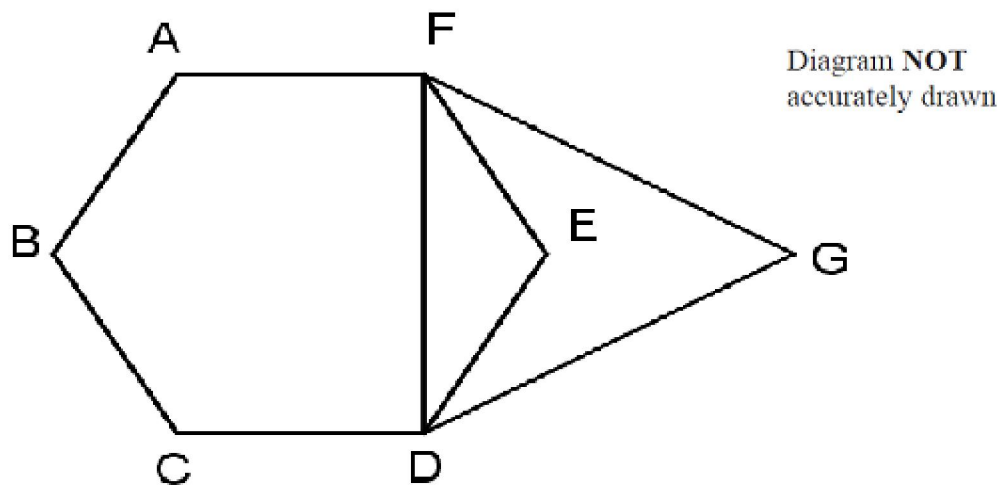Sheila wants to arrive at East station before 11 20.

Determine the average speed at which the train needs to travel to arrive before 11 20.

....mph

(Total 3 marks)

Topic 6: Angles in Polygons.

17.

Diagram **NOT** accurately drawn

ABCDEF is a regular hexagon.
DFG is an equilateral triangle.

Determine angle *EFG*.
Show all steps in your calculations.

....°

(Total 4 marks)

_____

End of Test

PERSONALISED RETEST FOR

Sample Student 8 (19 mins)

Username: samp8, Password: PPL

Topic 1: Solving Equations.

Last time you got 0 out of 2. This time you got ..... out of 2

Topic 2: Compound Measures.

Last time you got 0 out of 3. This time you got ..... out of 3

Topic 3: Angles in Polygons.

Last time you got 0 out of 4. This time you got ..... out of 4

Topic 4: Inequalities Regions.

Last time you got 0 out of 4. This time you got ..... out of 4

Topic 5: Proof.

Last time you got 0 out of 3. This time you got ..... out of 3

Topic 6: Solving Quadratics by Factorisation.

Last time you got 0 out of 3. This time you got ..... out of 3

For this test you got ..... out of 19 (marks)

I STILL NEED TO WORK ON: ....

Topic 1: Solving Equations.

RETEST QUESTION

2. (*b*)   Solve the equation $2x + 8 = 4 + 6x$

$x =$ ....

(2)

(Total 3 marks)
_____

Topic 2: Compound Measures.

14. West station is 8 miles from Central station.
East station is 15 miles from Central station.

Sheila will take the train from West to Central station
Afterwards she will travel to East station.

Sheila's train departs from West Station at 11 00.
The average speed of the train from West to Central station is 64 miles per hour.

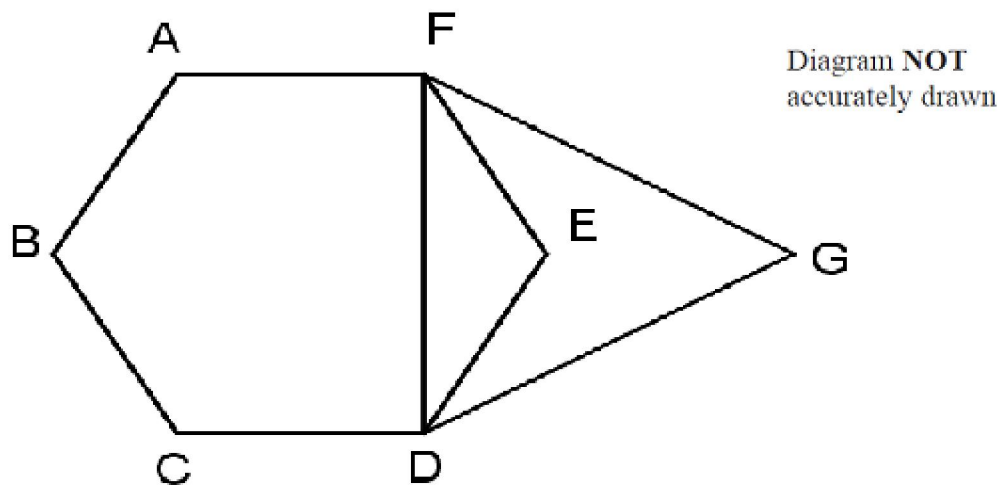Sheila wants to arrive at East station before 11 20.

Determine the average speed at which the train needs to travel to arrive before 11 20.

....mph

(Total 3 marks)

Topic 3: Angles in Polygons.

17.

Diagram **NOT** accurately drawn

ABCDEF is a regular hexagon.
DFG is an equilateral triangle.

Determine angle *EFG*.
Show all steps in your calculations.

....°

(Total 4 marks)

Topic 4: Inequalities Regions.

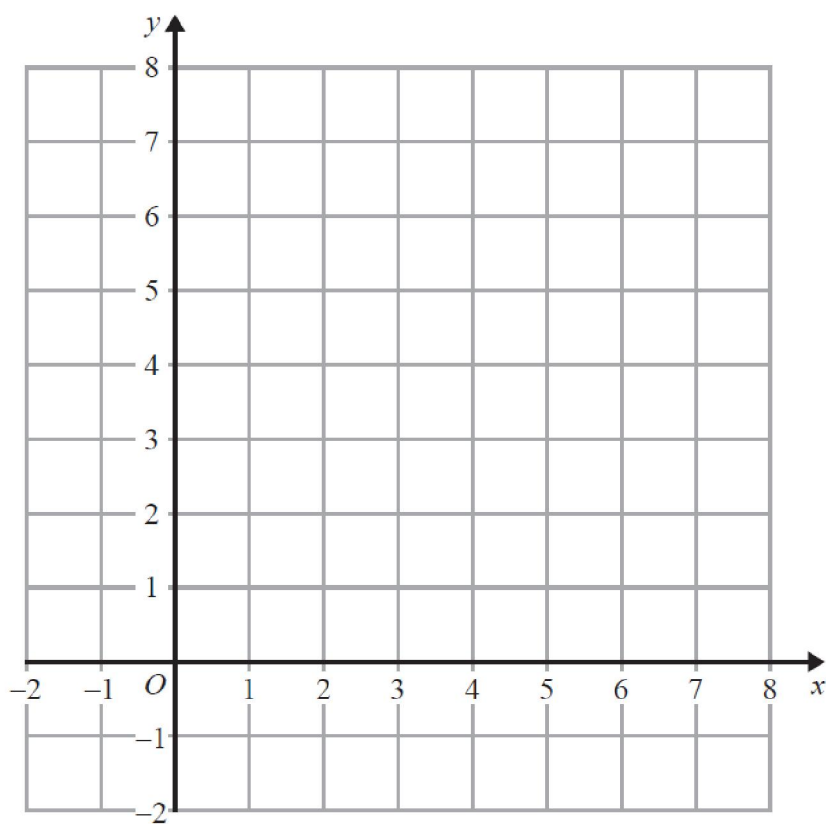**18.** Show the solutions that satisfy all three inequalities by shading the region containing the solutions.

$$2x + y > 5 \qquad\qquad y > x \qquad\qquad y < 5$$

Name the region containing the solutions **R**.

(Total 4 marks)

_____

Topic 5: Proof.

19. A bag contains n marbles.
3 of the marbles are gold.
The other marbles are red.

Kate takes a marble from the bag at random.
She doesn't return the marble to the bag.

Then Kate takes a marble from the bag at random.
She doesn't return the marble to the bag.

Kate has a probability of $\dfrac{1}{5}$ to draw two gold marble.

(a) Show that $n^2 - n - 30 = 0$

(3)

Topic 6: Solving Quadratics by Factorisation.

RETEST QUESTION

19. A bag contains n marbles.
3 of the marbles are gold.
The other marbles are red.

Kate takes a marble from the bag at random.
She doesn't return the marble to the bag.

Then Kate takes a marble from the bag at random.
She doesn't return the marble to the bag.

Kate has a probability of $\dfrac{1}{5}$ to draw two gold marble.

19. (*b*)   Solve the equation $n^2 - n - 30 = 0$.

....

(3)

(Total 6 marks)

_____

End of Test

PERSONALISED RETEST FOR

Sample Student 9 (15 mins)

Username: samp9, Password: PPL

Topic 1: Stem and Leaf.

Last time you got 1 out of 3. This time you got ..... out of 3

Topic 2: Substitution.

Last time you got 0 out of 1. This time you got ..... out of 1

Topic 3: Solving Equations.

Last time you got 0 out of 2. This time you got ..... out of 2

Topic 4: Volume of a Prism.

Last time you got 0 out of 3. This time you got ..... out of 3

Topic 5: Mixed Transformations.

Last time you got 1 out of 4. This time you got ..... out of 4

Topic 6: Probability.

Last time you got 0 out of 2. This time you got ..... out of 2

For this test you got ..... out of 15 (marks)

I STILL NEED TO WORK ON: ....

Topic 1: Stem and Leaf.

1.   Given are the Math test scores of 20 students.

81	75	56	98	45	79	92	58	62	68
52	49	89	76	86	71	69	85	75	59

(*a*) Show this information in an ordered stem and leaf diagram.

(3)

Topic 2: Substitution.

2. $x = 2$

(*a*) Determine $10x^2$

....
(1)

Topic 3: Solving Equations.

RETEST QUESTION

2.   (*b*)   Solve the equation $2x + 8 = 4 + 6x$

$x =$ ....
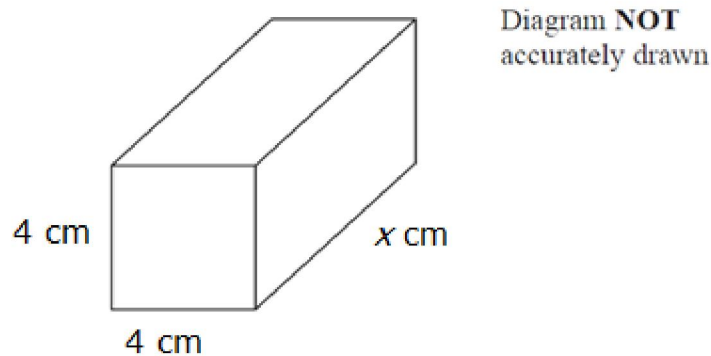
(2)

(Total 3 marks)

_____

Topic 4: Volume of a Prism.

5.   Kristen is sawing a piece of wood.
The resulting block of wood will have the shape of a rectangular cuboid.

Diagram **NOT**
accurately drawn

3 cm   20 cm
12 cm

Kristen is going to saw another piece of wood.

The new block of wood will have the shape of a rectangular cuboid too.
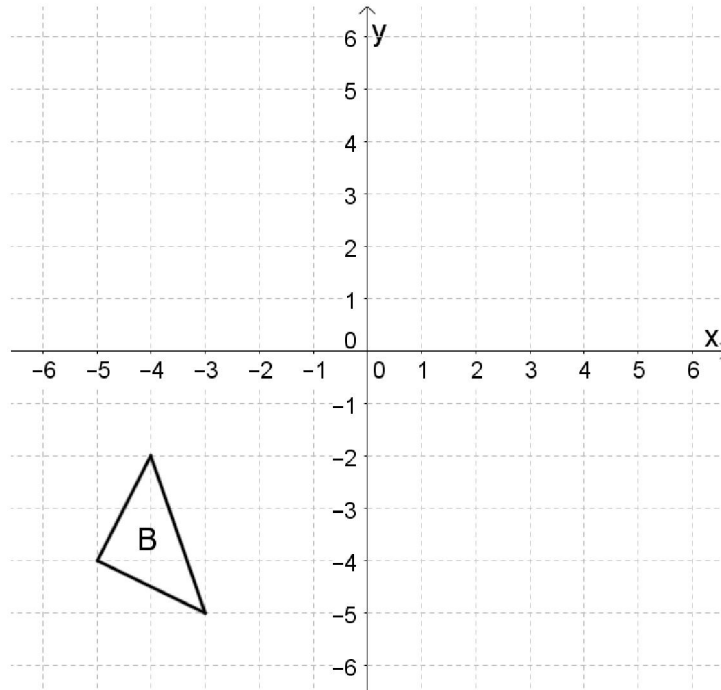One of the cross-sections of the cuboid is a square with sides 4 cm.

Diagram **NOT**
accurately drawn

4 cm x cm
4 cm

Kirsten wants the two blocks to have the same volume.

Determine the value of x.

....
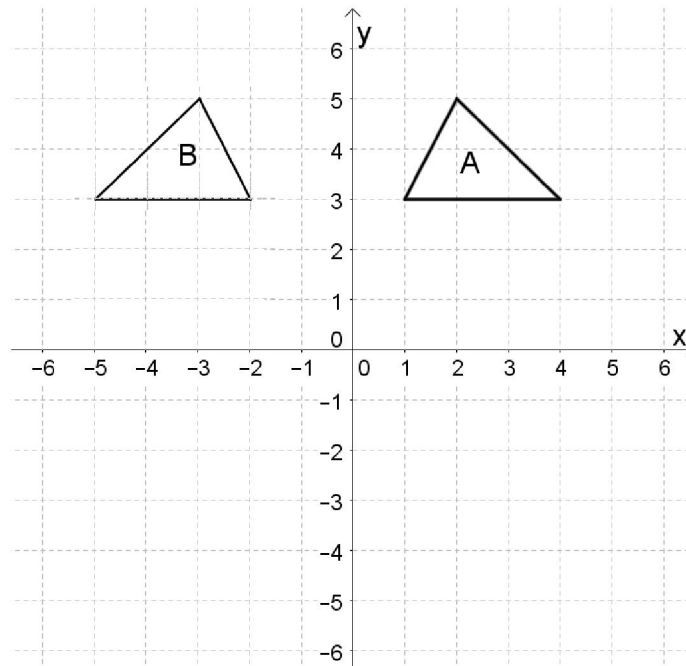
(Total 3 marks)

Topic 5: Mixed Transformations.

7.

(*a*) Rotate the given triangle **B** 180° clockwise around the origin.

(2)

(*b*) Which transformation transforms triangle **A** into triangle **B**?

....

....

(2)

(Total 4 marks)

Topic 6: Probability.

11. Mark needs money to buy a new bike.
He creates a new game that people can play.

Mark designs a spinner divided into 6 equally sized pieces.
Three pieces are colored red, two pieces green and one piece blue.

Every person will spin the spinner once.
That person will win the game if the spinner lands on red.

The game is played once by Mohammed.

(*a*) What is the probability that Mohammed wins the game?

....
(2)

End of Test

PERSONALISED RETEST FOR

Sample Student 10 (14 mins)

Username: samp10, Password: PPL

Topic 1: Stem and Leaf.

Last time you got 0 out of 3. This time you got ..... out of 3

Topic 2: Substitution.

Last time you got 0 out of 1. This time you got ..... out of 1

Topic 3: Solving Equations.

Last time you got 0 out of 2. This time you got ..... out of 2

Topic 4: Questionnaires.

Last time you got 0 out of 2. This time you got ..... out of 2

Topic 5: Volume of a Prism.

Last time you got 0 out of 3. This time you got ..... out of 3

Topic 6: Scattergraphs.

Last time you got 0 out of 3. This time you got ..... out of 3

For this test you got ..... out of 14 (marks)

I STILL NEED TO WORK ON: ....

Topic 1: Stem and Leaf.

1. Given are the Math test scores of 20 students.

81	75	56	98	45	79	92	58	62	68
52	49	89	76	86	71	69	85	75	59

(*a*) Show this information in an ordered stem and leaf diagram.

(3)

Topic 2: Substitution.

2. $x = 2$

    (a) Determine $10x^2$

....

(1)

Topic 3: Solving Equations.

2. (*b*) Solve the equation $2x + 8 = 4 + 6x$

$x =$ ....

(2)

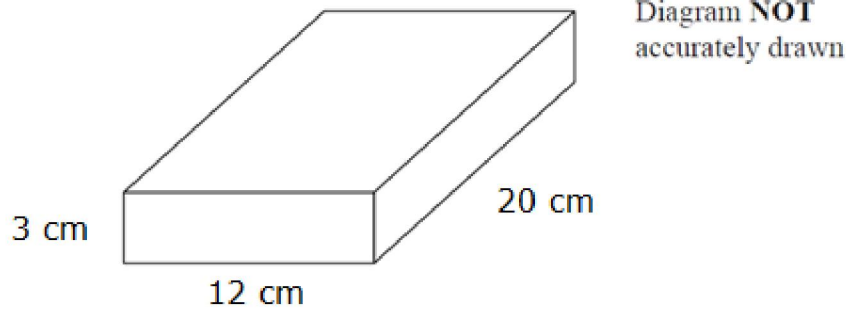**(Total 3 marks)**

_____

Topic 4: Questionnaires.

3. Brian works for the local pet store.
He would like to know how often people visit pet stores in his area.
He plans to conduct a survey.

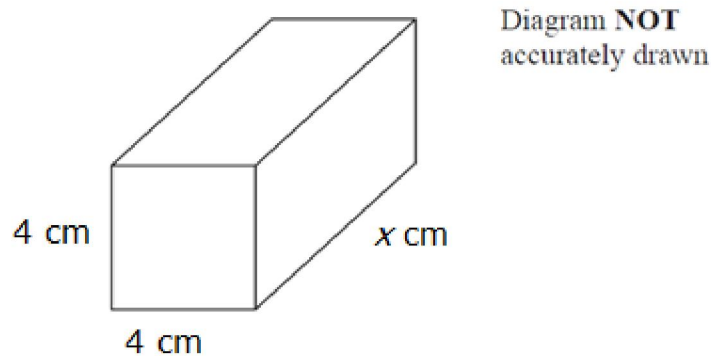Create an appropriate question that Brian can use in the survey.

(Total 2 marks)

_____

Topic 5: Volume of a Prism.

5. Kristen is sawing a piece of wood.
The resulting block of wood will have the shape of a rectangular cuboid.

Diagram **NOT** accurately drawn

20 cm

3 cm

12 cm

Kristen is going to saw another piece of wood.

The new block of wood will have the shape of a rectangular cuboid too.
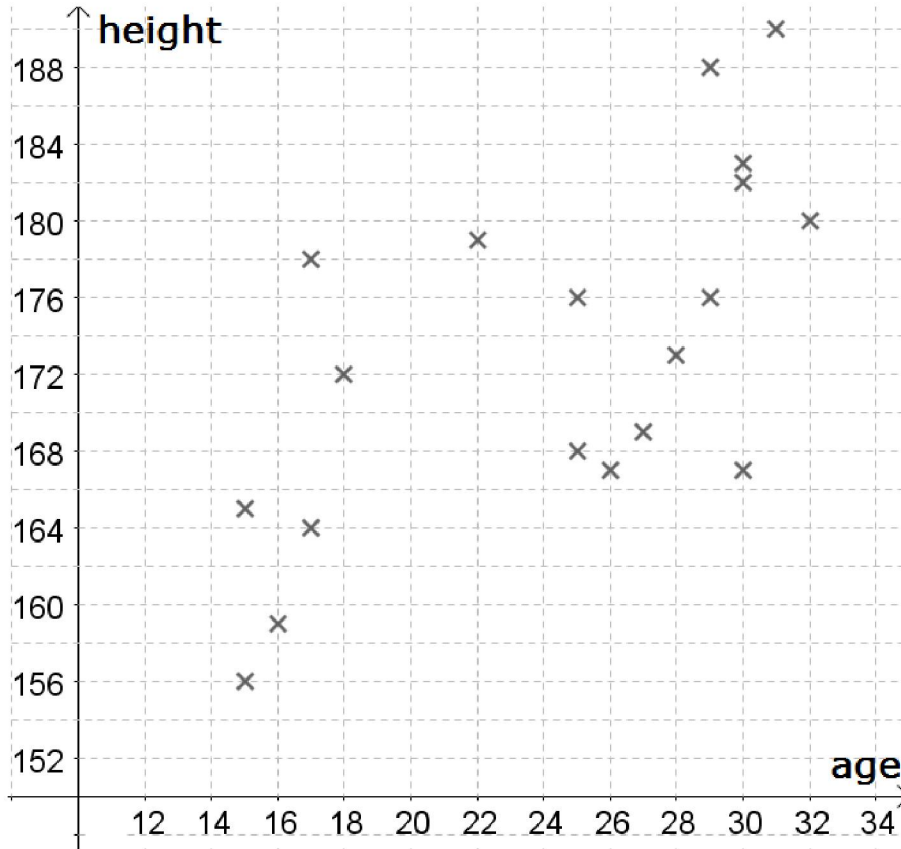One of the cross-sections of the cuboid is a square with sides 4 cm.

Diagram **NOT** accurately drawn

4 cm

x cm

4 cm

Kirsten wants the two blocks to have the same volume.

Determine the value of x.

....

(Total 3 marks)

Topic 6: Scattergraphs.

6. The height of plants according to their age is shown in the following scatter graph.

(*a*) Describe the relationship between the age of the plant and its height.

....

....

(1)

Another plant is 20 years old.

(*b*) Estimate the height of this plant.

....cm

(2)

(Total 3 marks)

_____

End of Test

PERSONALISED RETEST FOR Sample Student 11 (14 mins)

Username: samp11, Password: PPL

Topic 1: Stem and Leaf.

Last time you got 0 out of 3. This time you got ..... out of 3

Topic 2: Substitution.

Last time you got 0 out of 1. This time you got ..... out of 1

Topic 3: Solving Equations.

Last time you got 0 out of 2. This time you got ..... out of 2

Topic 4: Questionnaires.

Last time you got 0 out of 2. This time you got ..... out of 2

Topic 5: Volume of a Prism.

Last time you got 0 out of 3. This time you got ..... out of 3

Topic 6: Scattergraphs.

Last time you got 0 out of 3. This time you got ..... out of 3

For this test you got ..... out of 14 (marks)

I STILL NEED TO WORK ON: ....

Topic 1: Stem and Leaf.

1. Given are the Math test scores of 20 students.

81	75	56	98	45	79	92	58	62	68
52	49	89	76	86	71	69	85	75	59

(*a*) Show this information in an ordered stem and leaf diagram.

(3)

Topic 2: Substitution.

2. $x = 2$

(*a*) Determine $10x^2$

....
(1)

Topic 3: Solving Equations.

RETEST QUESTION

2. (*b*)   Solve the equation $2x + 8 = 4 + 6x$

$x =$ ....

(2)

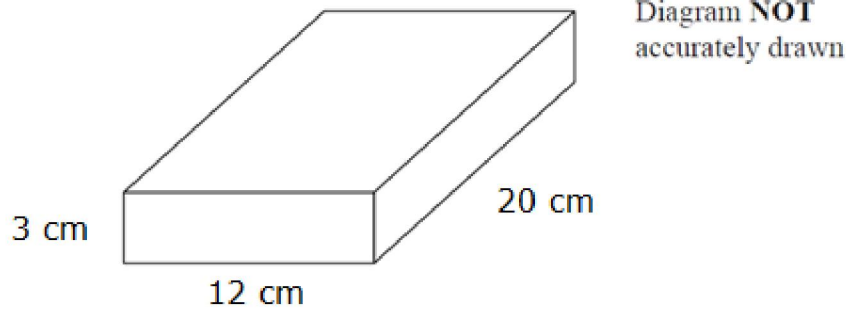**(Total 3 marks)**

_____

Topic 4: Questionnaires.

3.   Brian works for the local pet store.
He would like to know how often people visit pet stores in his area.
He plans to conduct a survey.

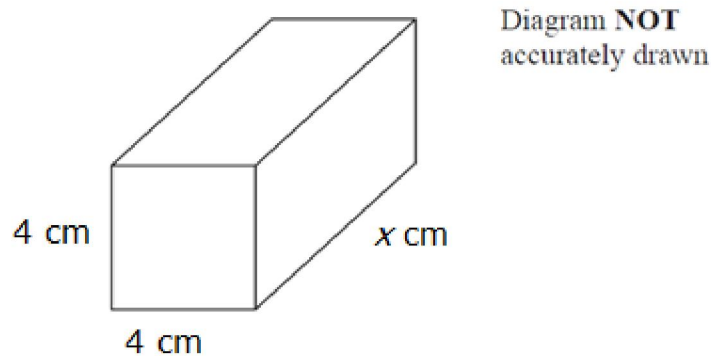Create an appropriate question that Brian can use in the survey.

(Total 2 marks)
_____

Topic 5: Volume of a Prism.

5.   Kristen is sawing a piece of wood.
The resulting block of wood will have the shape of a rectangular cuboid.

Diagram **NOT** accurately drawn

20 cm

3 cm

12 cm

Kristen is going to saw another piece of wood.

The new block of wood will have the shape of a rectangular cuboid too.
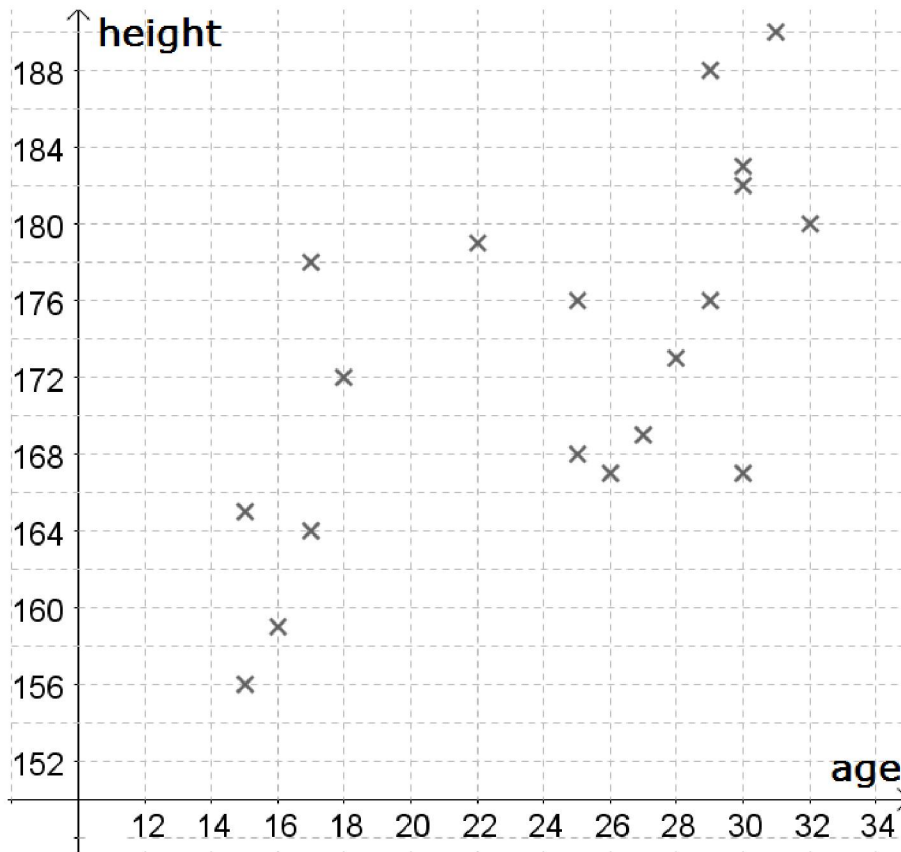One of the cross-sections of the cuboid is a square with sides 4 cm.

Diagram **NOT** accurately drawn

4 cm

4 cm

x cm

Kirsten wants the two blocks to have the same volume.

Determine the value of x.

....

(Total 3 marks)

Topic 6: Scattergraphs.

6. The height of plants according to their age is shown in the following scatter graph.

(*a*) Describe the relationship between the age of the plant and its height.

....

....

(1)

Another plant is 20 years old.

(*b*) Estimate the height of this plant.

....cm

(2)

(Total 3 marks)

_____

End of Test

PERSONALISED RETEST FOR

Sample Student 12 (15 mins)

Username: samp12, Password: PPL

Topic 1: Substitution.

Last time you got 0 out of 1. This time you got ..... out of 1

Topic 2: Solving Equations.

Last time you got 0 out of 2. This time you got ..... out of 2

Topic 3: Questionnaires.

Last time you got 0 out of 2. This time you got ..... out of 2

Topic 4: Volume of a Prism.

Last time you got 0 out of 3. This time you got ..... out of 3

Topic 5: Scattergraphs.

Last time you got 0 out of 3. This time you got ..... out of 3

Topic 6: Mixed Transformations.

Last time you got 0 out of 4. This time you got ..... out of 4

For this test you got ..... out of 15 (marks)

I STILL NEED TO WORK ON: ....

Topic 1: Substitution.

2. $x = 2$

   (*a*) Determine $10x^2$

....
(1)

Topic 2: Solving Equations.

RETEST QUESTION

2. (*b*)   Solve the equation $2x + 8 = 4 + 6x$

$x =$ ....
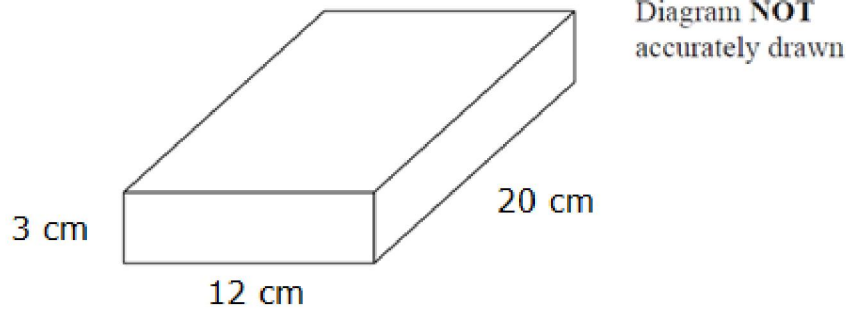
(2)

(Total 3 marks)

_____

Topic 3: Questionnaires.

3. Brian works for the local pet store.
He would like to know how often people visit pet stores in his area.
He plans to conduct a survey.

Create an appropriate question that Brian can use in the survey.
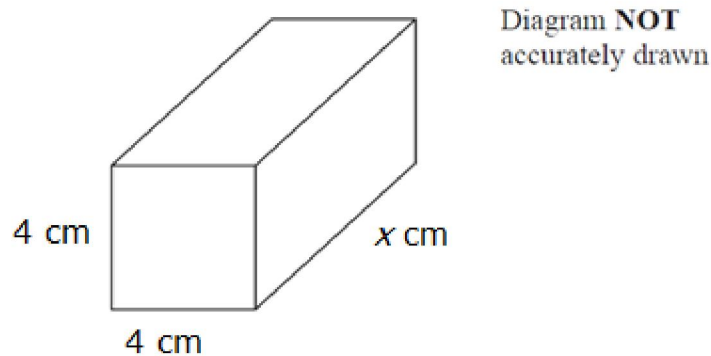
(Total 2 marks)

_____

Topic 4: Volume of a Prism.

5. Kristen is sawing a piece of wood.
The resulting block of wood will have the shape of a rectangular cuboid.

Diagram **NOT** accurately drawn

3 cm

20 cm

12 cm

Kristen is going to saw another piece of wood.

The new block of wood will have the shape of a rectangular cuboid too.
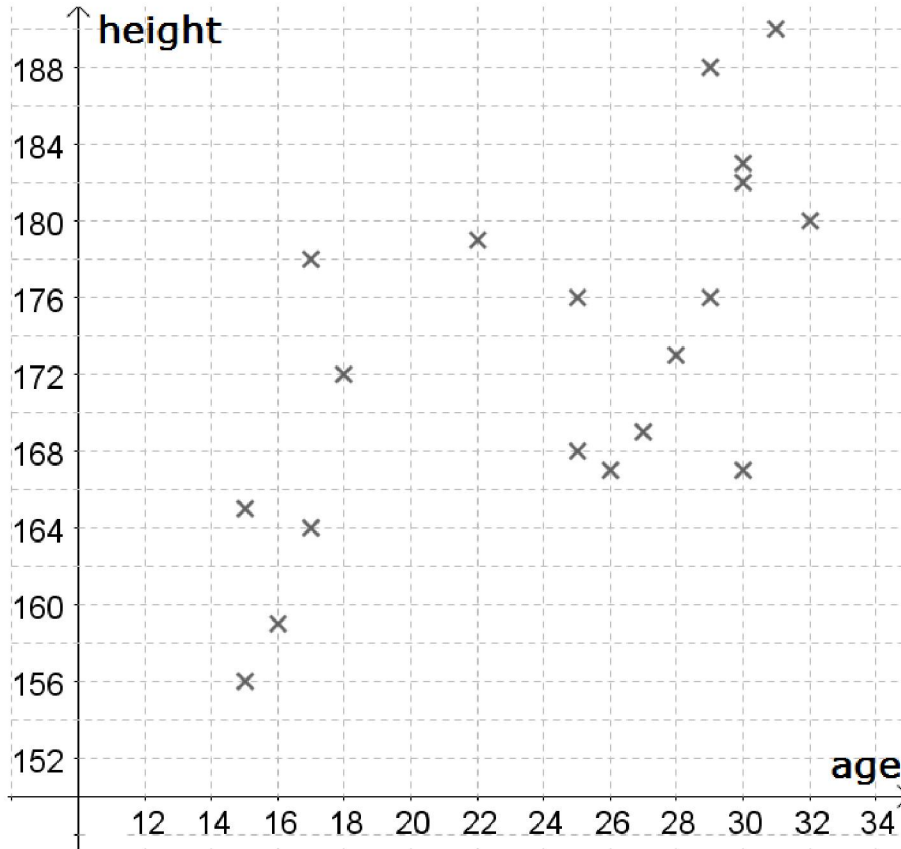One of the cross-sections of the cuboid is a square with sides 4 cm.

Diagram **NOT** accurately drawn

4 cm

4 cm

x cm

Kirsten wants the two blocks to have the same volume.

Determine the value of x.

....

(Total 3 marks)

Topic 5: Scattergraphs.

6. The height of plants according to their age is shown in the following scatter graph.

(*a*) Describe the relationship between the age of the plant and its height.

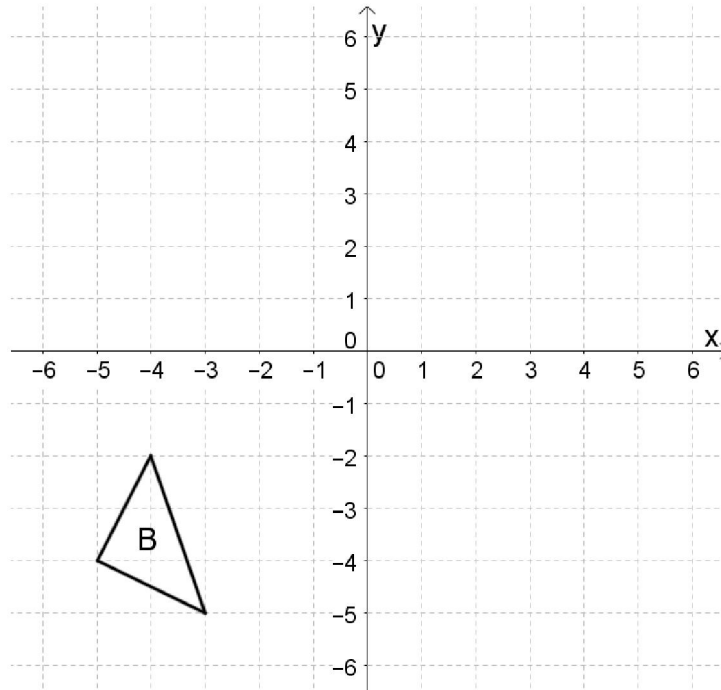..

....

(1)

Another plant is 20 years old.

(*b*) Estimate the height of this plant.

......................................cm

(2)
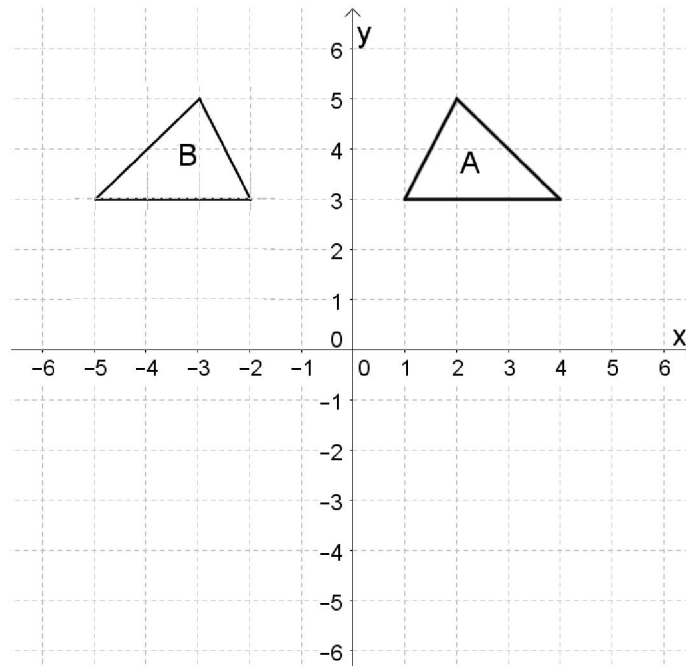
(Total 3 marks)

Topic 6: Mixed Transformations.

7.

(*a*) Rotate the given triangle **B** 180° clockwise around the origin.

(2)

(*b*) Which transformation transforms triangle **A** into triangle **B**?

....

....

(2)

(Total 4 marks)

End of Test

PERSONALISED RETEST FOR Sample Student 13 (20 mins)

Username: samp13, Password: PPL

Topic 1: Volume of a Prism.

Last time you got 1 out of 3. This time you got ..... out of 3

Topic 2: Scattergraphs.

Last time you got 1 out of 3. This time you got ..... out of 3

Topic 3: Mixed Transformations.

Last time you got 1 out of 4. This time you got ..... out of 4

Topic 4: Probability and Relative Frequency.

Last time you got 1 out of 3. This time you got ..... out of 3

Topic 5: Angles in Parallel Lines.

Last time you got 1 out of 4. This time you got ..... out of 4
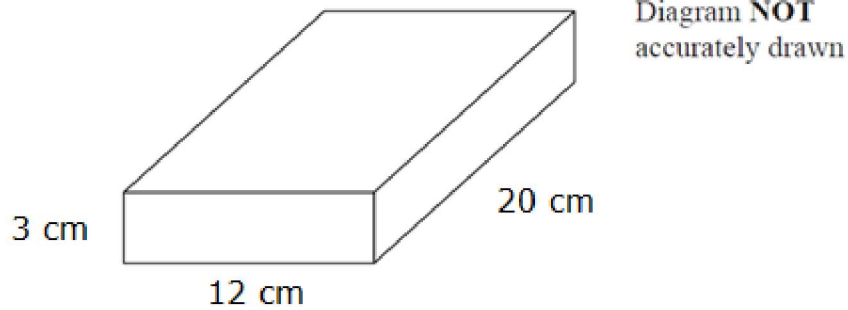
Topic 6: Compound Measures.

Last time you got 1 out of 3. This time you got ..... out of 3

For this test you got ..... out of 20 (marks)

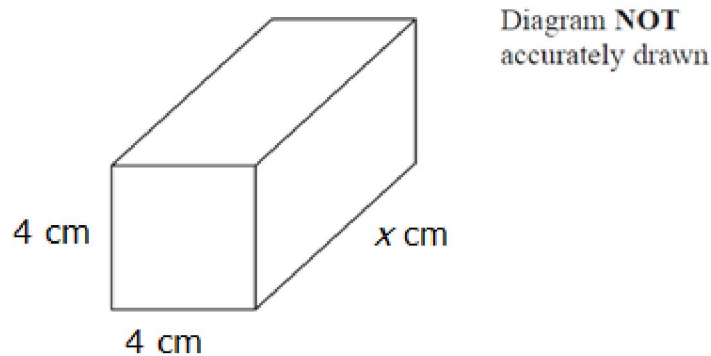I STILL NEED TO WORK ON: ....

Topic 1: Volume of a Prism.

5.   Kristen is sawing a piece of wood.
The resulting block of wood will have the shape of a rectangular cuboid.

Diagram **NOT** accurately drawn

3 cm   20 cm   12 cm

Kristen is going to saw another piece of wood.

The new block of wood will have the shape of a rectangular cuboid too.
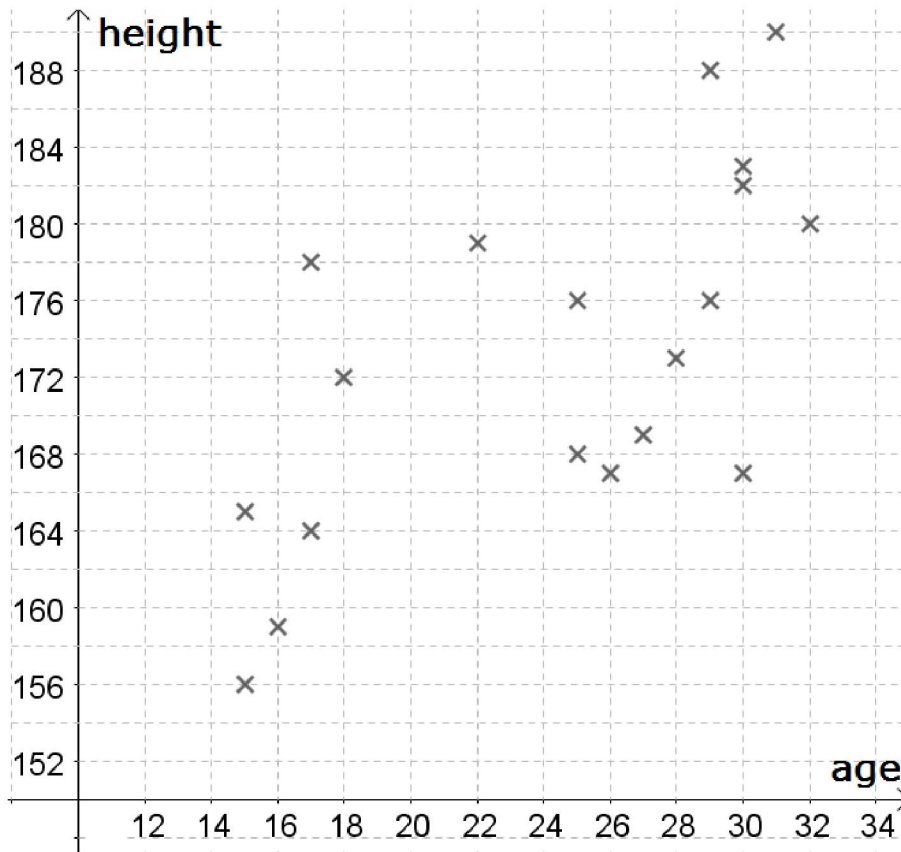One of the cross-sections of the cuboid is a square with sides 4 cm.

Diagram **NOT** accurately drawn

4 cm x cm   4 cm

Kirsten wants the two blocks to have the same volume.

Determine the value of x.

....

(Total 3 marks)

Topic 2: Scattergraphs.

6. The height of plants according to their age is shown in the following scatter graph.

(*a*) Describe the relationship between the age of the plant and its height.

....

....

(1)

Another plant is 20 years old.

(*b*) Estimate the height of this plant.

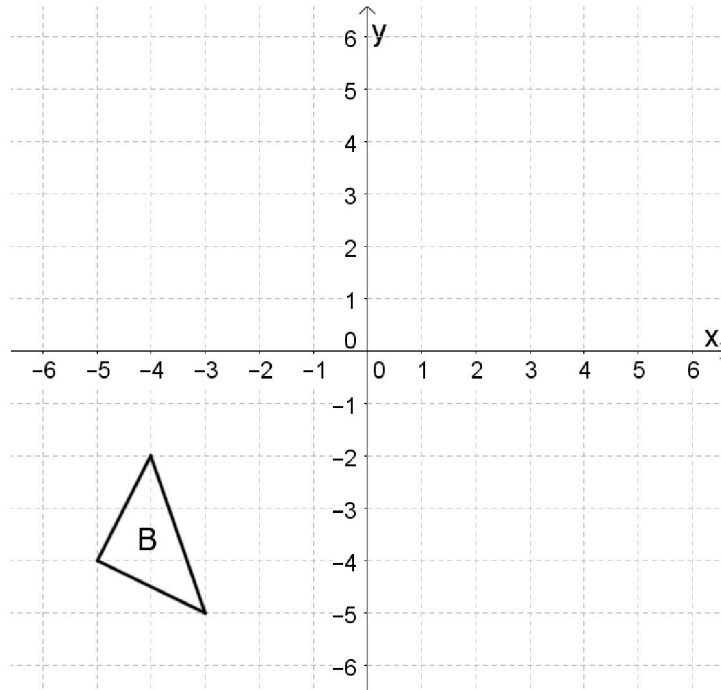.....................................cm
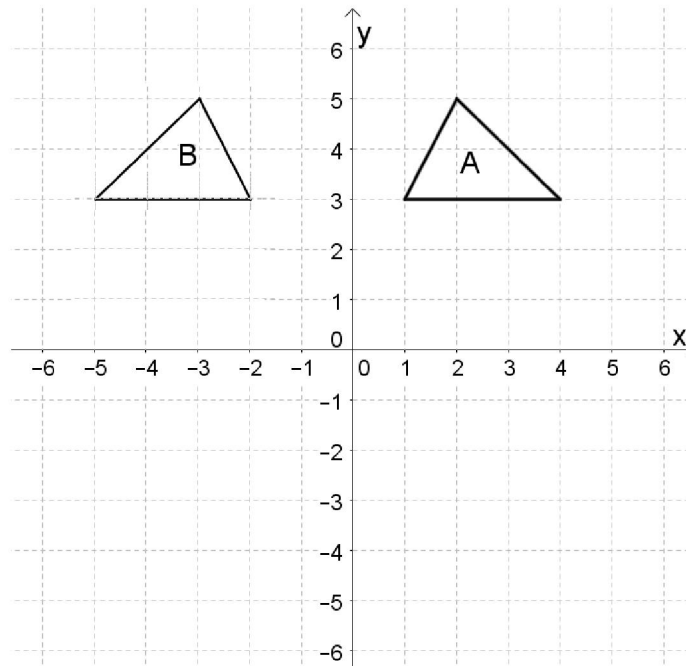
(2)

(Total 3 marks)

Topic 3: Mixed Transformations.

7.

(*a*) Rotate the given triangle **B** 180° clockwise around the origin.

(2)

(*b*) Which transformation transforms triangle **A** into triangle **B**?

....

....

(2)

(Total 4 marks)

Topic 4: Probability and Relative Frequency.

11. Mark needs money to buy a new bike.
He creates a new game that people can play.

Mark designs a spinner divided into 6 equally sized pieces.
Three pieces are colored red, two pieces green and one piece blue.

Every person will spin the spinner once.
That person will win the game if the spinner lands on red.

The game is played once by Mohammed.

(*a*) What is the probability that Mohammed wins the game?

RETEST QUESTION

One game costs 75p.
If the person playing wins, they will get £ 1.

Mark expects 300 people to play the game.

11 (*b*) How much money do you expect Marc to raise?

....
(3)
(Total 5 marks)
_____

Topic 5: Angles in Parallel Lines.

*12.
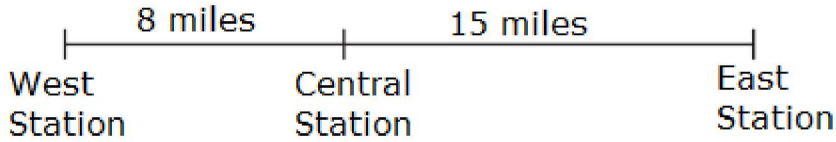

GHJ is a straight line.
ADJK, BEH and *CFG* are parallel lines.

Angle *HKJ* = 40°
Angle *FGH* = 55°

Determine the value of *x*.
Explain every step in your calculation.

(Total 4 marks)

Topic 6: Compound Measures.

14. West station is 8 miles from Central station.
East station is 15 miles from Central station.

Sheila will take the train from West to Central station
Afterwards she will travel to East station.

Sheila's train departs from West Station at 11 00.
The average speed of the train from West to Central station is 64 miles per hour.

Sheila wants to arrive at East station before 11 20.

Determine the average speed at which the train needs to travel to arrive before 11 20.

....mph

(Total 3 marks)

End of Test

PERSONALISED RETEST FOR

Other tests (18 mins)

Username: Ot53161, Password: PPL

Topic 1: Stem and Leaf.

Last time you got 0 out of 3. This time you got ..... out of 3

Topic 2: Substitution.

Last time you got 0 out of 1. This time you got ..... out of 1

Topic 3: Mixed Transformations.

Last time you got 1 out of 4. This time you got ..... out of 4

Topic 4: Probability and Relative Frequency.

Last time you got 1 out of 3. This time you got ..... out of 3

Topic 5: Angles in Parallel Lines.

Last time you got 1 out of 4. This time you got ..... out of 4

Topic 6: Compound Measures.

Last time you got 1 out of 3. This time you got ..... out of 3

For this test you got ..... out of 18 (marks)

I STILL NEED TO WORK ON: ....

Topic 1: Stem and Leaf.

1. Given are the Math test scores of 20 students.

81	75	56	98	45	79	92	58	62	68
52	49	89	76	86	71	69	85	75	59

(*a*) Show this information in an ordered stem and leaf diagram.

(3)

Topic 2: Substitution.

2. $x = 2$

(a) Determine $10x^2$

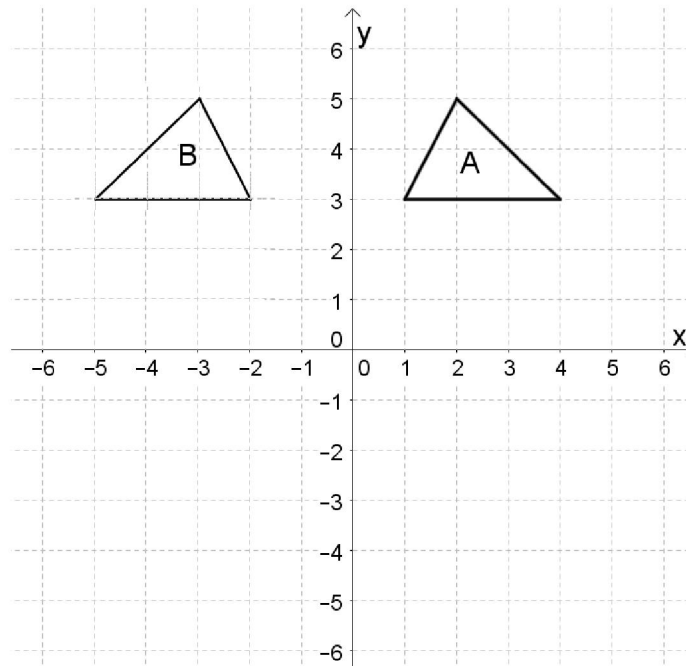..
(1)

Topic 3: Mixed Transformations.

7.

(*a*) Rotate the given triangle **B** 180° clockwise around the origin.

(2)

(*b*) Which transformation transforms triangle **A** into triangle **B**?

....

....

(2)

(Total 4 marks)

Topic 4: Probability and Relative Frequency.

11. Mark needs money to buy a new bike.
He creates a new game that people can play.

Mark designs a spinner divided into 6 equally sized pieces.
Three pieces are colored red, two pieces green and one piece blue.

Every person will spin the spinner once.
That person will win the game if the spinner lands on red.

The game is played once by Mohammed.

(*a*) What is the probability that Mohammed wins the game?

RETEST QUESTION

One game costs 75p.
If the person playing wins, they will get £ 1.

Mark expects 300 people to play the game.

11 (*b*) How much money do you expect Marc to raise?

....
(3)

(Total 5 marks)
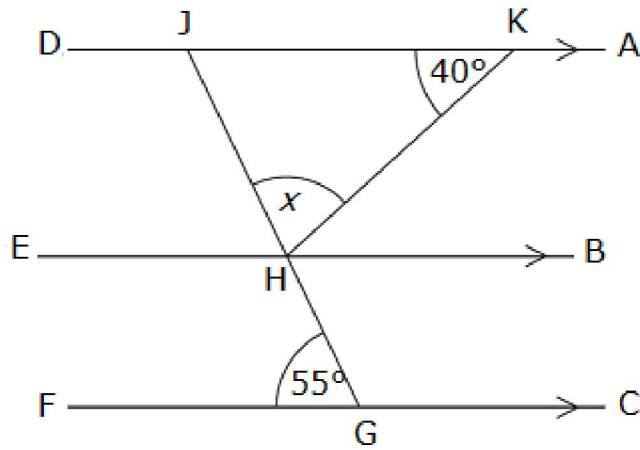_____

Topic 5: Angles in Parallel Lines.
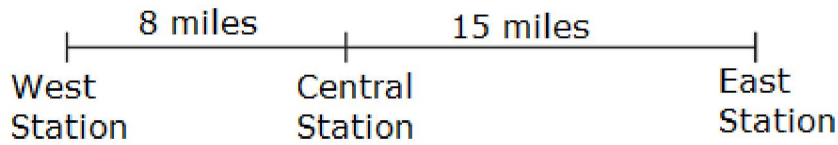
*12.

Diagram **NOT** accurately drawn

GHJ is a straight line.
ADJK, BEH and *CFG* are parallel lines.

Angle *HKJ* = 40°
Angle *FGH* = 55°

Determine the value of *x*.
Explain every step in your calculation.

(Total 4 marks)

Topic 6: Compound Measures.

14. West station is 8 miles from Central station.
East station is 15 miles from Central station.

Sheila will take the train from West to Central station
Afterwards she will travel to East station.

Sheila's train departs from West Station at 11 00.
The average speed of the train from West to Central station is 64 miles per hour.

Sheila wants to arrive at East station before 11 20.

Determine the average speed at which the train needs to travel to arrive before 11 20.

....mph

(Total 3 marks)

End of Test