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WJEC GCSE Mathematics and Numeracy (Double Award) – Question Pack

Foundation algebra basics: the vocabulary of variables, terms, expressions and equations; substituting numerical values into expressions and formulae;

REVISE
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F2.07 – Algebraic vocabulary, substitution & simplifying

Spec 2.1.1, 2.1.2, 2.1.3, 2.1.5, 2.1.6, 2.1.7, 2.1.8, 2.1.9 – Unit 2 (no calculator)

Foundation algebra basics: the vocabulary of variables, terms, expressions and equations; substituting numerical values into expressions and formulae; and simplifying expressions by collecting like terms and applying the order of operations. Sourced from legacy WJEC GCSE Mathematics-Numeracy Foundation papers (3300U10/U20) and accessible content from Intermediate papers (3300U30/U40), organised for revision under the 2025 spec.

2025 SPECIFICATION

Estimated time for entire question pack: ~3 hours 3 minutes

Derived from the GCSE Higher pace of ~1.5 min/mark (122 marks across 53 questions).

*You are advised to **not** attempt to complete all of this in one sitting.*

ABOUT THIS QUESTION PACK

This is a **focused single-topic practice pack**, not a single mock paper. Questions are organised against the 2025 specification. Questions are ordered chronologically by sitting, with custom-written and SAM questions at the end.

INSTRUCTIONS

Use black ink or black ball-point pen. Show all working – method marks are awarded for clear setup.

*A calculator is **not** permitted on any question in this pack (Unit 2 is the non-calculator paper).*

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Algebraic vocabulary, substitution & simplifying – what the new spec asks

WJEC GCSE Mathematics (first teaching 2025) · Unit 2: non-calculator.

Algebraic notation 2.2.1

- Use letters to represent unknown numbers.
- Understand variable, term, expression and equation.
- Write products without the \times sign ($3a$, not $3\times a$).

Substitution 2.2.4

- Substitute positive and negative values into expressions.
- Substitute into formulae from real-life contexts.
- Use BIDMAS when evaluating the substituted expression.

Collecting like terms 2.2.2

- Identify like terms in an expression.
- Combine like terms by adding/subtracting coefficients.
- Simplify expressions with several variables.

Exam strategy 2.2

- Non-calculator – write substitution step explicitly.
- Use brackets around substituted negative values.
- Final expressions should be in simplest form.

Algebraic vocabulary, substitution & simplifying in one page

Quick-reference notes – revisit before each question. Don't use during the questions.

Vocabulary

Variable: a letter standing for a number (x, y, n).

Term: a number, variable or product (3, x, 4y).

Expression: terms combined ($3x + 2$).

Equation: expression = expression.

Substitution

Replace each variable with its value, then evaluate.

If $a = 3$, $2a + 5 = 2 \times 3 + 5 = 11$.

Use brackets when substituting negatives.

Like terms

Same letter(s) to same power(s).

$3x$ and $5x$ are like; $3x$ and $3x^2$ are not.

Collecting like terms

$$5x + 3x = 8x \quad 7y - 2y = 5y$$

Add or subtract the coefficients; the letter part stays the same.

BIDMAS

Brackets · Indices ·

Division/Multiplication ·

Addition/Subtraction.

$3 + 4 \times 2 = 3 + 8 = 11$ (not 14).

Common traps

• Combining unlike terms ($3x + 2y \neq 5xy$).

• Forgetting to substitute the negative sign.

• Doing left-to-right instead of BIDMAS.

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7. (a) Solve these equations.

(i) $7x = 56$

[1]

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(ii) $y + 19 = 83$

[1]

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(b) Simplify the expression $12k - 15k + 7k$.

[1]

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8. (a) Write down the value of 9^2 .

[1]

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(b) Work out 1.2×70 .

[1]

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9. Use a ruler and a protractor to make an accurate drawing of this triangle.

[3]

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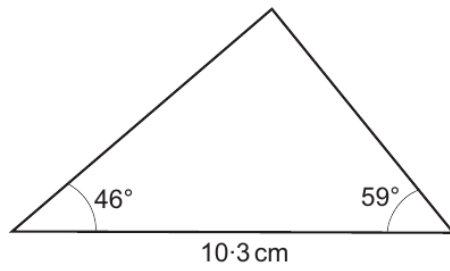
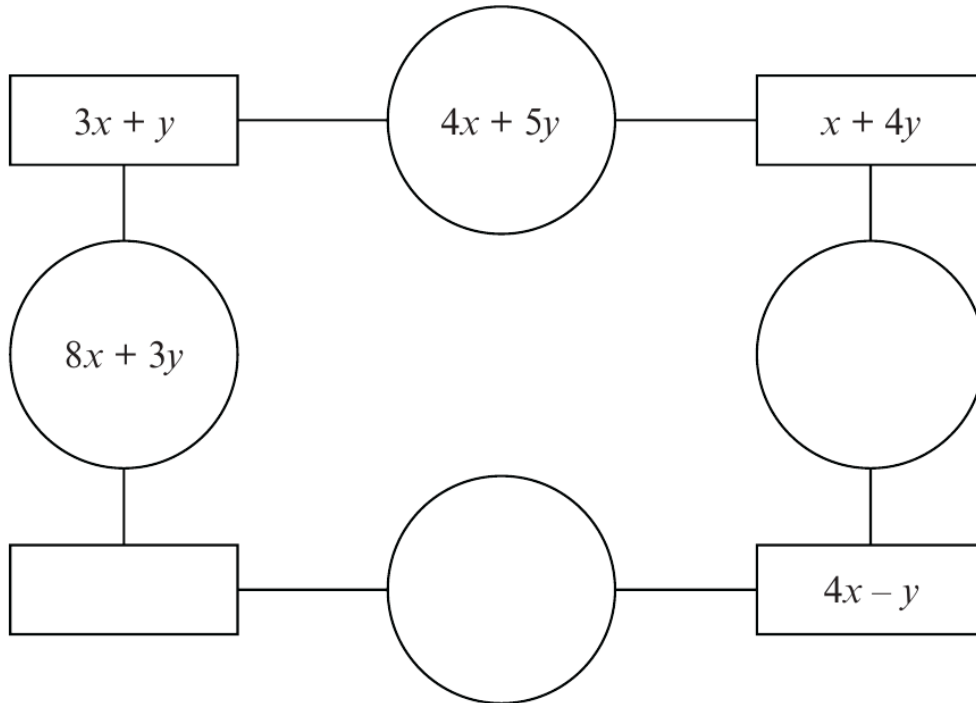


Diagram not drawn to scale



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9. Look at the diagram below.
 The expression in each circle is found by **adding** the expressions in the rectangles on either side of the circle.
 Complete the diagram by writing expressions in the blank circles and the blank rectangle.
 You must simplify your expressions. [3]



Working space:

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11. Rhys wrote down four whole numbers.

The mode of the four numbers is 7.
The median of the four numbers is 6.
The range of the four numbers is 5.

What are the four numbers that Rhys wrote down?
You must show all your working.

[3]

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Rhys's numbers are , , and

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19. ABC and CDE are two right-angled triangles.

In triangle ABC , $AB = 6.5$ cm and $BC = 10.4$ cm.
In triangle CDE , $CE = 9.4$ cm.

$$\widehat{BCE} = 22^\circ.$$

$$\widehat{ACB} = x^\circ.$$

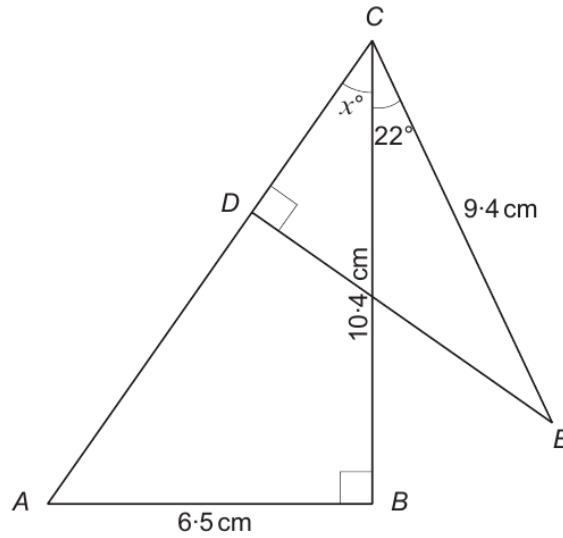


Diagram not drawn to scale

(a) Calculate the value of x .

[3]

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(b) Hence find the length of DE .

[3]

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END OF PAPER



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(b) Use your scale drawing to calculate the **actual** length of side *BC*.
Give your answer in metres. [2]

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Actual length of *BC* = metres

3. (a) Simplify the expression $15x - 2y - 7x - 4y$. [2]

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(b) Solve the equation $2m - 7 = 12$. [2]

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(c) Calculate the value of $5f + 3g$ when $f = -4$ and $g = 7$. [2]

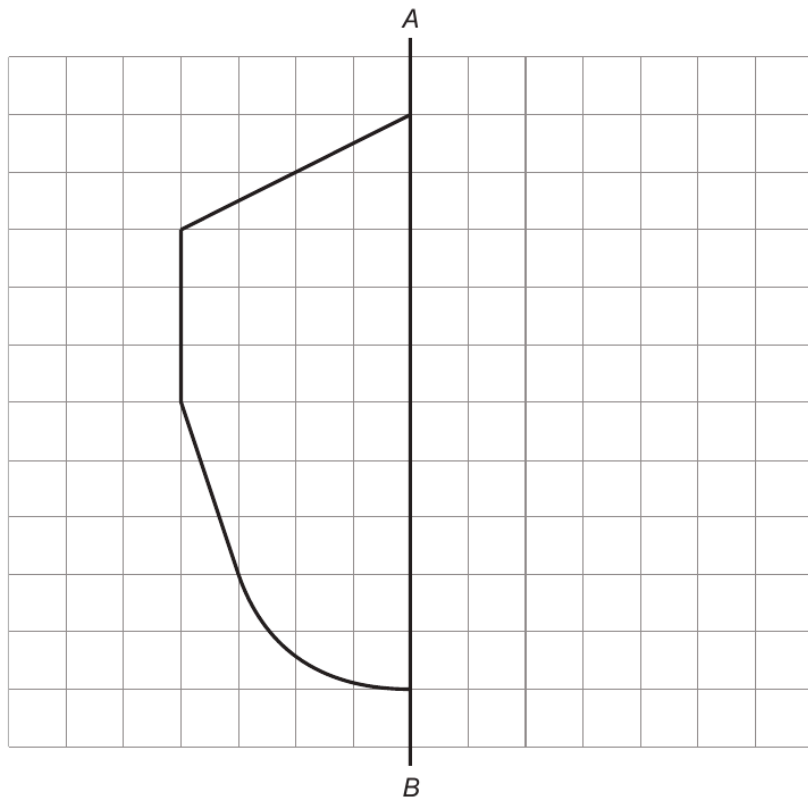
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5. (a) Complete the following figure so that it is symmetrical about the line AB. [2]

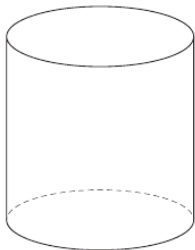


- (b) Ben draws a shape that has:
- 4 sides,
 - 4 angles of equal size,
 - a pair of sides of length 4 cm, and
 - a pair of sides of length 6 cm.

What type of shape has Ben drawn?
Circle the correct answer.

square rhombus trapezium rectangle kite

(c) Write down the special name for the shape below. [1]



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Examiner
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14. (a) Simplify the expression $15x - 2y - 7x - 4y$. [2]

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(b) Solve the equation $2m - 7 = 12$. [2]

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(c) Calculate the value of $5f + 3g$ when $f = -4$ and $g = 7$. [2]

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2. (a) Find the value of $5f + 7g$ when $f = 3.8$ and $g = -2.6$. [2]

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(b) Solve the following equation.
Give your answer correct to 1 decimal place. [3]

$$7x - 4 = 12$$

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Examiner
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8. (a) Simplify $8p - 12p + 9p$.

[1]

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(b) Solve the following equations.

(i) $6x = 48$

[1]

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(ii) $32 - y = 17$

[1]

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(c) Tom thinks of a number.
He multiplies the number by 4.
The answer is 76.
What number did Tom think of?

[1]

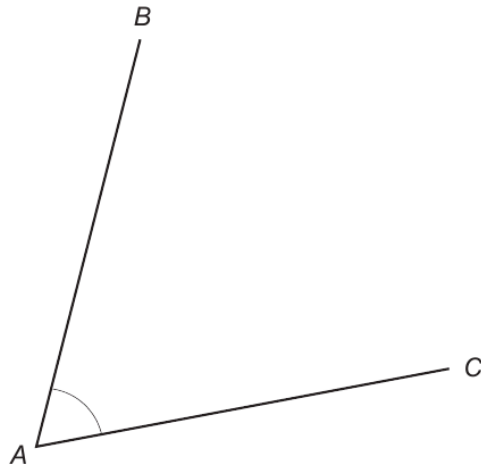
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8. (a) Measure \widehat{BAC} .

[1]



$\widehat{BAC} = \dots\dots\dots^\circ$

(b) One of the angles below is a reflex angle.
Circle the correct answer.

[1]

- 45° 90° 135° 180° 225°

(c) The diagram below shows two angles on a straight line.
The large angle is 5 times the size of the small angle.
Find the size of each angle.

[2]



Diagram not drawn to scale

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Small angle =° Large angle =°



Examiner
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12. (a) Find the value of $5f + 7g$ when $f = 3.8$ and $g = -2.6$. [2]

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(b) Solve the following equation.
Give your answer correct to 1 decimal place. [3]

$$7x - 4 = 12$$

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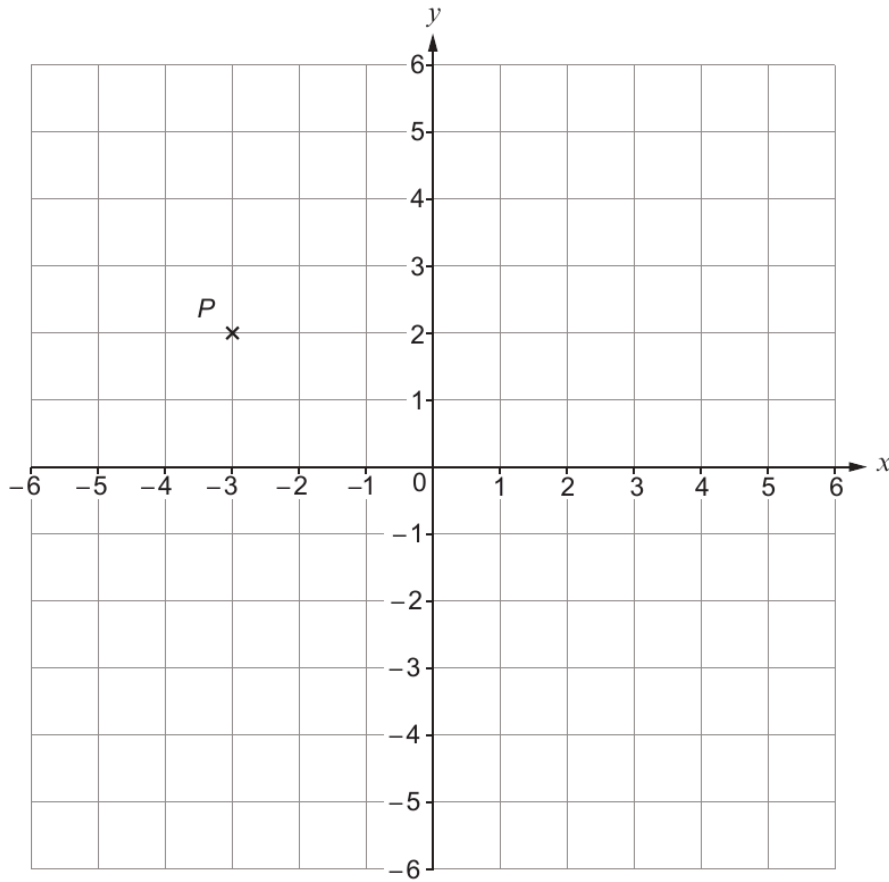
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8. (a) On the grid below plot the point $R(5, -2)$.

[1]



(b) Write down the coordinates of point P , shown on the grid.

[1]

(..... ,)

9. Use the formula $T = 7A - B$ to find the value of T when $A = 43$ and $B = 26$.

[2]

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Examiner
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12. The table below shows some of the values of $y = x^2 - 2x - 4$ for values of x from -3 to 4 .

x	-3	-2	-1	0	1	2	3	4
$y = x^2 - 2x - 4$	11	4	-1	-4		-4	-1	4

(a) Complete the table by finding the value of y when $x = 1$. [1]

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(b) On the graph paper opposite, draw the graph of $y = x^2 - 2x - 4$ for values of x from -3 to 4 . [2]

(c) (i) Draw the line $y + x = 4$ on the graph paper. [2]

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(ii) Write down the values of x where the line $y + x = 4$ cuts the curve $y = x^2 - 2x - 4$. [1]

Values of x are and



17. (a) Solve the following equation.

[3]

$$4(3x + 2) = 12$$

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(b) Write down an expression for the **total** cost of 3 bananas at x pence each, and 5 apples at $2x$ pence each.
Simplify your answer.

[3]

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18. In the following formulae, each measurement of length is represented by a letter.

Consider the dimensions implied by the formulae.

For each case, write down whether the formula could be for a **length**, an **area**, a **volume** or **none of these**.

The first one has been done for you.

[3]

<u>Formula</u>	<u>Formula could be for</u>
$3 \cdot 14r^2 - dw$	area
$w^3 + r^2d$
$3w + 2d + h$
$dhr + 5d^3$
$4d + \pi r^2$
$\frac{dwh}{r}$



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2. (a) Write down the next two numbers in the following sequence. [2]

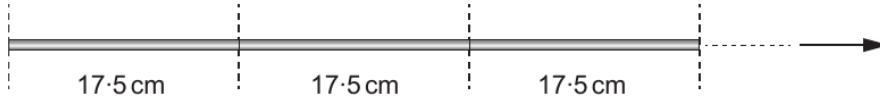
50 39 28 17

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(b) Use the formula $x = 4a + 3b$ to find the value of x when $a = 7.2$ and $b = -4.6$. [2]

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3. Identical rods can be placed end to end, as shown below.
Each rod is 17.5 cm long.



How many of these rods can be placed, in this way, between two points 4 metres apart? [4]

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Number of rods =



5. (a) Solve the equation $4x + 7 = 10$.

[2]

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(b) Simplify $8d - 6e - 3d + 4e$.

[2]

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6. PQ and RS are parallel.

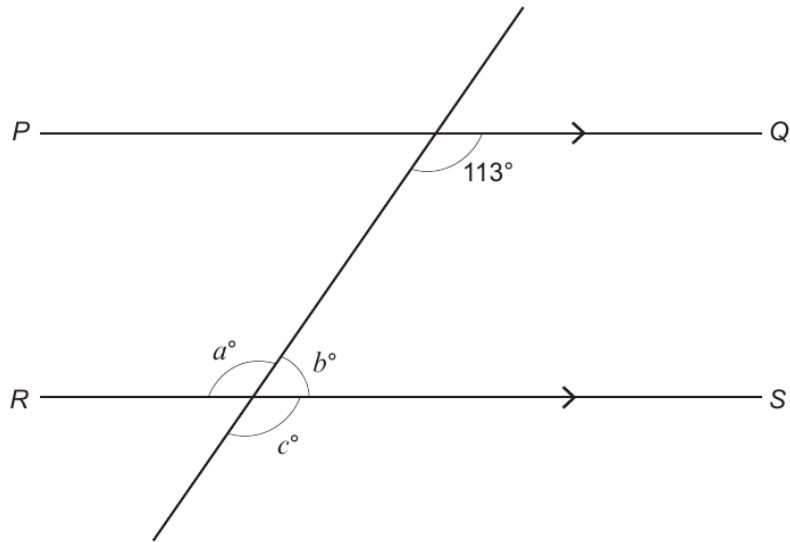


Diagram not drawn to scale

Find the values of a , b and c .

[3]

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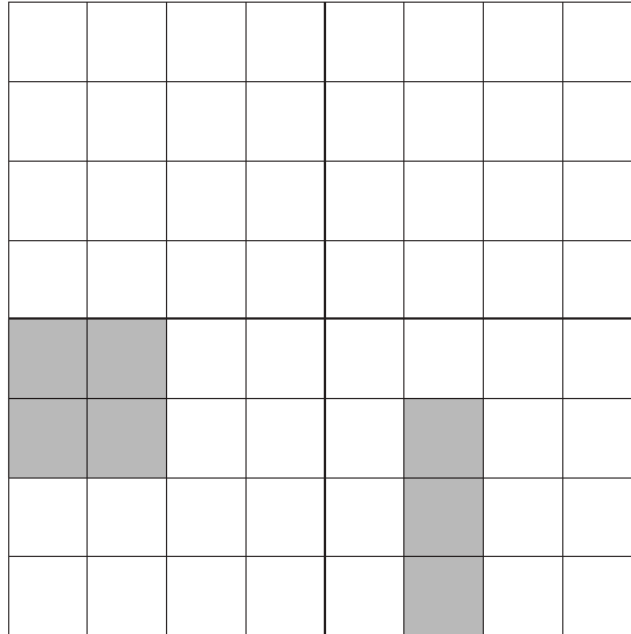
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$a =$ $b =$ $c =$

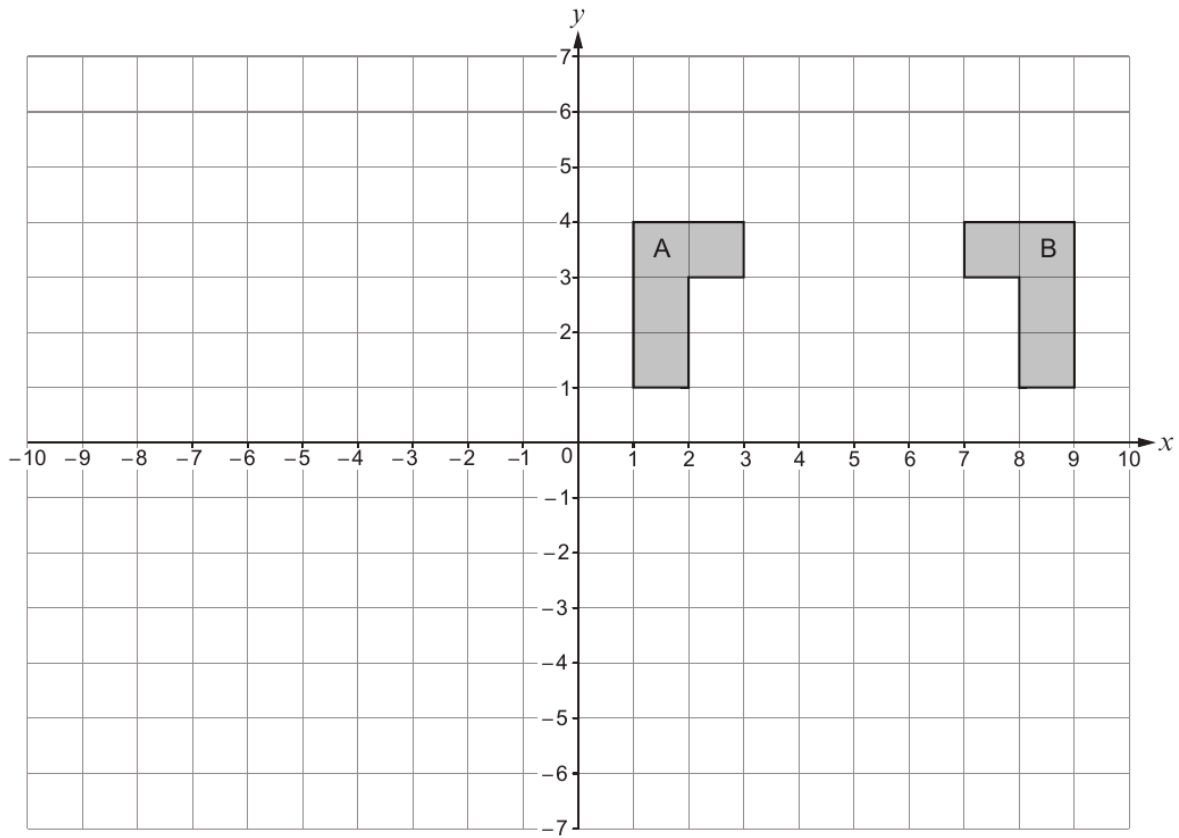


5. (a) Shade the least number of squares so that the grid has rotational symmetry of order 2. The squares you shade must be in the upper two quadrants. [2]

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(b) Describe fully the **single** transformation that transforms shape A onto shape B. [2]

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<p>9. (a) Simplify the expression $9g - 5g + 12g$.</p> <p>.....</p> <p>.....</p>	Examiner only	
<p>(b) Solve the equation $5y = 45$.</p> <p>.....</p> <p>.....</p>		[1]
<p>(c) Solve the equation $w - 16 = 14$.</p> <p>.....</p> <p>.....</p>		[1]
<p>(d) Solve the equation $4x + 7 = 10$.</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>		[2]



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11. (a) Write down the next two numbers in the following sequence. [2]

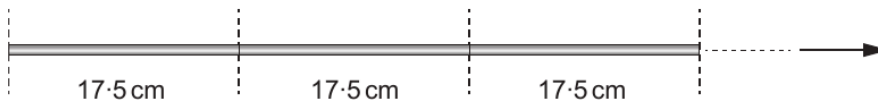
50 39 28 17

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(b) Use the formula $x = 4a + 3b$ to find the value of x when $a = 7.2$ and $b = -4.6$. [2]

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12. Identical rods can be placed end to end, as shown below.
Each rod is 17.5 cm long.



How many of these rods can be placed, in this way, between two points 4 metres apart? [4]

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Number of rods =



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14. (a) Solve $5(2x + 3) = 20$.

[3]

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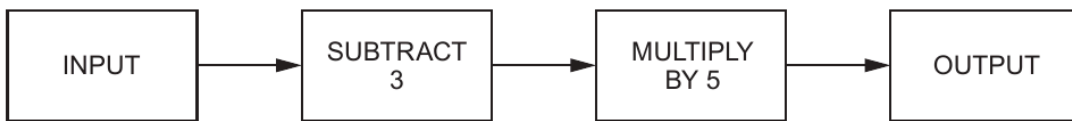
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(b) A number machine is shown below.



Write down an expression for the OUTPUT when the INPUT is n .

[2]

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5. In the grid below:
- each column must add to 250,
 - each row must add to 250.

Complete the grid.

[3]

.....	60	78
26	27	112
95	105	8
58	0	103

Space for working:

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6. (a) Write the next term in the sequence below. [1]

2, 26, 50, 74,

(b) Describe the rule for continuing the following sequence. [1]

77, 64, 51, 38, 25, ...

Rule:

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(c) A dog is x years old.
Another dog is 2 years younger.
Write down, in terms of x , the age of the younger dog. [1]

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7. Gwenan writes down four numbers:

64 89 83 26

(a) Calculate the mean of Gwenan's numbers. [3]

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(b) Every number in Gwenan's list is increased by 1.
What is the mean of her new list of numbers? [1]

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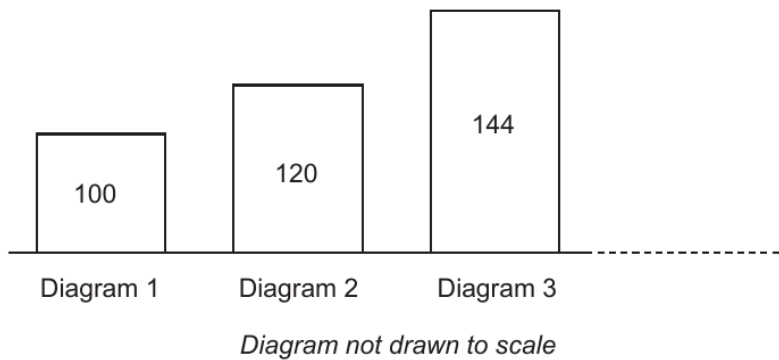
16. (a) A number, when increased by 4%, is equal to N .
Which of the following calculations would give you the original number?
Circle your answer. [1]

$N \times 1.04$ $N \div 1.04$ $N \times 1.4$ $N \div 1.4$ $N - 4$

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- (b) The number shown on each diagram below is 20% greater than the number shown on the previous diagram.



Find the number that should be shown on Diagram 6. [2]

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7. (a) Simplify $12a - 19a + 10a$. [1]

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(b) Solve the following equations.
(i) $3y = 189$ [1]

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(ii) $27 - x = 15$ [1]

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(c) Write down the value of $\sqrt{36}$. [1]

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8. A sack contains 5.4 kg of potatoes.
A second sack contains 3.08 kg of potatoes.
A third sack contains 2.2 lb (**pounds**) of potatoes.
Calculate the total mass of these potatoes.
Give your answer in **kilograms**. [3]

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Examiner
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11. The table below shows some of the values of $y = x^2 + x - 4$ for values of x from -3 to 3 .

x	-3	-2	-1	0	1	2	3
$y = x^2 + x - 4$	2	-2		-4		2	8

(a) Complete the table by finding the values of y for $x = -1$ and for $x = 1$. [2]

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(b) On the graph paper opposite, draw the graph of $y = x^2 + x - 4$ for values of x from -3 to 3 . [2]

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(c) Use your graph to solve the equation $x^2 + x - 4 = 0$.
Give your answers correct to 1 decimal place. [1]

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$x =$ or $x =$



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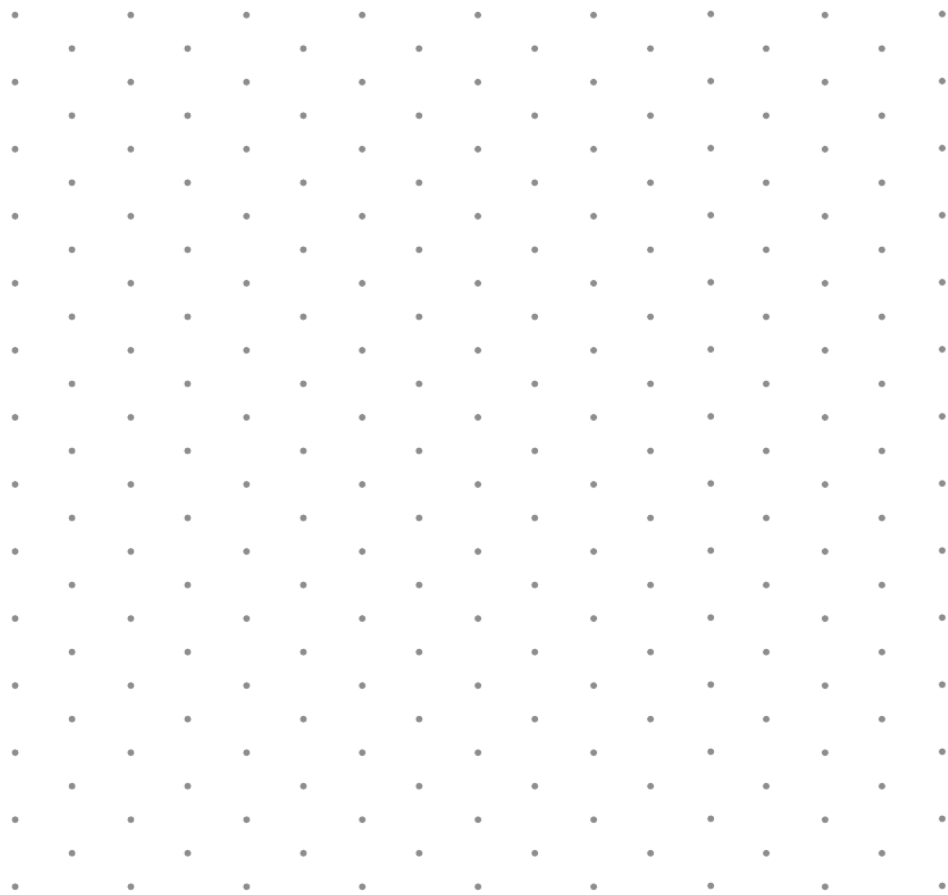
4. A cuboid is to be drawn on the isometric grid below.
Find a possible length, width and height for the cuboid, such that:
- the cuboid has a volume of 12 cm^3
 - each of the length, width and height is a whole number of centimetres.

Write the length, width and height of your cuboid in the spaces below.
Use the grid below to draw an isometric representation of your cuboid.

[3]

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Length = cm Width = cm Height = cm



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5. (a) Simplify $3a + 2a - a$.

[1]

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(b) (i) Draw Diagram 4 in the sequence below.

[1]

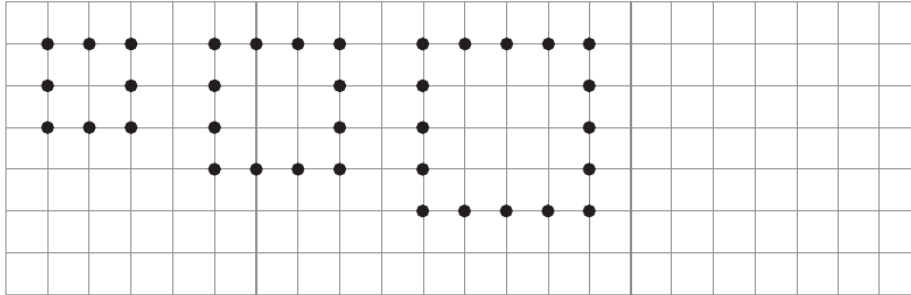


Diagram 1

Diagram 2

Diagram 3

Diagram 4

(ii) How many dots will there be in Diagram 6?

[2]

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(c) *In this part of the question, you will be assessed on the quality of your linguistic and mathematical accuracy in writing.*

Find the value of $7w + 5y$ when $w = 36$ and $y = 29$.
 You must show all your working.

[2 + 1 W]

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8. Melin is a company that packages flour for sale in supermarkets.
It packages the flour in cylindrical bags.
The area of the cross-section of each of these bags is 25 cm^2 .

(a) Write down an expression, in terms of π , for **the radius of the base** of each of these bags. [2]

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(b) Each bag has a volume of 500 cm^3 .

(i) Currently the bags are filled with flour at a rate of $\frac{1}{4}$ of a bag per second.
Complete the following statement. [2]

Melin packages bags of flour at a rate of cm^3 per minute.

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(ii) A new cylindrical bag is designed to have the same capacity and to be more stable.

Melin decides to increase the area of the cross-section of its original bags by 100%.
Calculate the height of this new bag. [2]

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END OF PAPER



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only

14. Two friends, Geraint and Dyfrig, are having a discussion.

(a) Geraint says,

"All prime numbers are odd numbers."

Explain why Geraint is incorrect.

[1]



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(b) Dyfrig says,

"All cube numbers are odd numbers."

Explain why Dyfrig is incorrect.

[1]

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Examiner
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19. In the following formulae, each measurement of length is represented by a letter. Consider the dimensions implied by each formula. For each case, write down whether the formula could be for a length, an area, a volume or none of these.

The first one has been done for you.

[3]

<u>Formula</u>	<u>Formula could be for</u>
$7a^3 - abc$	volume
$7ab - 5b^2 + \frac{a^2b}{c}$
$5abc - 6bc + b^2$
$4a^2b + 4b^2a$
$3a + 8b + 2c$
$a^2 - abc$



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3. Alice is 9 years younger than Isaac.
Nadia is one third of Isaac's age.
Dewi is twice Nadia's age.

Alice is 27 years old.

What are the ages of Isaac, Nadia and Dewi? [3]

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Isaac is years old. Nadia is years old. Dewi is years old.

4. (a) Write down the next two numbers in the following sequence. [2]

-26 -20 -14 -8

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(b) $f = 3g + 2h$.

Calculate the value of f when $g = 9.3$ and $h = -13.6$. [2]

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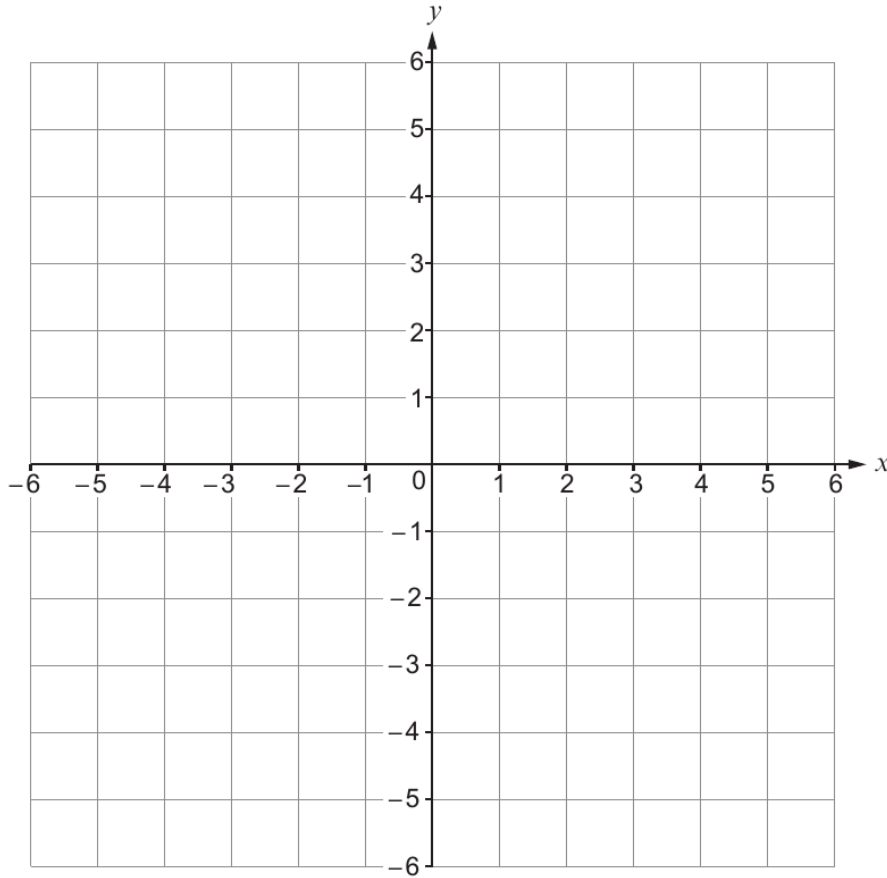
10. $ABCD$ is a rectangle.

A is the point $(3, 4)$, B is the point $(-5, 4)$, C is the point $(-5, -2)$ and D is the point $(3, -2)$.

What is the perimeter of $ABCD$?

You may use the centimetre-squared grid below to help you.

[5]



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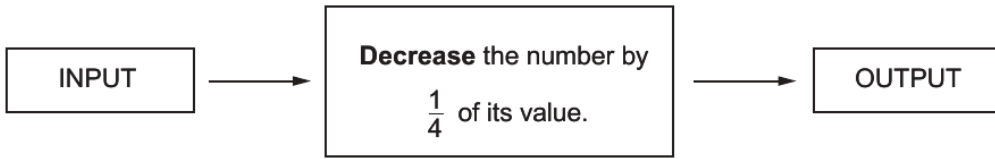
Perimeter of $ABCD$ = cm

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10. A number machine is shown below.



For a given INPUT number, there will be an OUTPUT number.
The OUTPUT is then put back in the number machine as the next INPUT.
This process is then repeated many times.

The first INPUT number is 512.
What will be the first OUTPUT number that is less than 300?

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First OUTPUT number that is less than 300 =

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12. (a) Which **one** of the following fractions can be written as a recurring decimal?
Circle your answer.

[1]

$\frac{1}{2}$

$\frac{1}{4}$

$\frac{1}{6}$

$\frac{1}{8}$

$\frac{1}{10}$

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- (b) Which **three** numbers from the list below are prime numbers?

[2]

27 31 35 39 43 47 51 55

The three prime numbers are:

..... , and

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only

Examiner
only

15. Rhian is n years old.
Samir is 7 years younger than Rhian.
Nigel is twice as old as Samir.

Write down an expression, in terms of n , for Nigel's age. [3]

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Nigel's age

16. The mean of four numbers is 7.

(a) What is the total of the four numbers? [1]

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(b) Find a set of four numbers such that:

- their mean is 7
- their range is 6.

Write your four numbers in the boxes below. [2]

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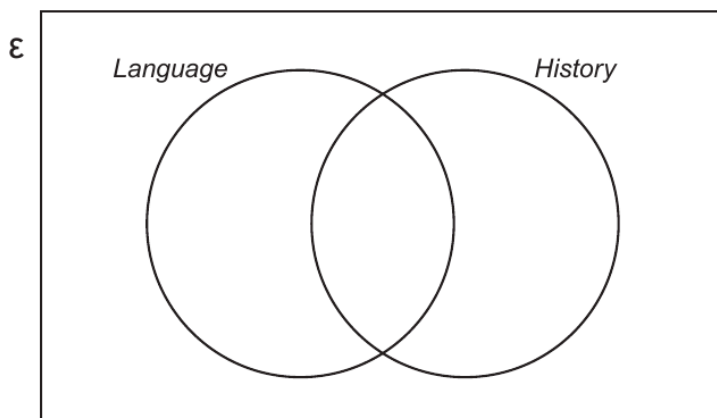
19. A bus going to a *Welsh Heritage* conference has 43 people on board.
There are 38 students, 4 tutors and a driver on the bus.

At the conference, each student will attend a session on *Language*, a session on *History* or both sessions.

- All the students will attend at least one session.
- 18 students will attend both sessions.
- 25 students will attend the session on *History*.
- The tutors and driver will not attend either of the sessions.

(a) Complete the Venn diagram below to show this information.
The universal set, \mathcal{E} , contains all of the 43 people on the bus.

[3]



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(b) One of the people on the bus is chosen at random.
What is the probability that this person will attend the session on *Language*?

[2]

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END OF PAPER



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9. In this question, you will be assessed on the quality of your organisation, communication and accuracy in writing.

The diagram below shows a shape made by joining two identical rectangles together. Each rectangle is 8 cm long and 5 cm wide. The length of AB is 6 cm.

Calculate the perimeter of the shape.
You must show all your working.

[3 + 2 OCW]

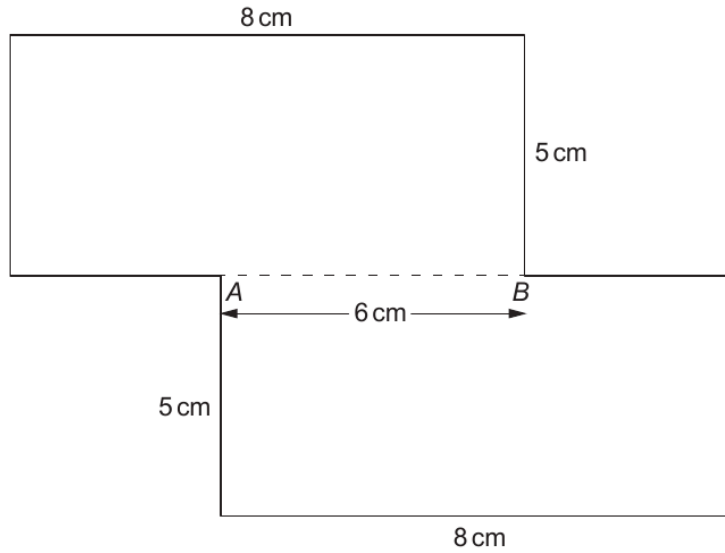


Diagram not drawn to scale

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19. Solve the equation $\frac{10x+2}{3} - \frac{7x-3}{5} = 9$.

[4]

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END OF PAPER



7. (a) Simplify $5k - 8k + 6k$. [1]

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(b) Solve these equations.
 (i) $15 + x = 60$ [1]

.....

(ii) $20 - y = 9$ [1]

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(iii) $6w = 54$ [1]

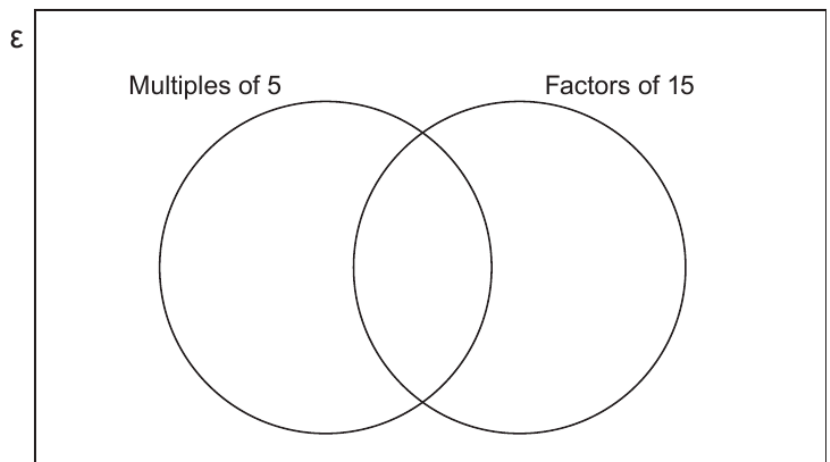
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8. The Venn diagram below is used to show
 • multiples of 5
 • factors of 15.
 Place the numbers **1, 3, 5, 10** and **15** in the Venn diagram. [2]

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6. A children's play area contains a large number of coloured balls. Some are yellow, some are red, some are blue and the others are pink.

(a) A ball is chosen at random from the play area. Complete the table below to find the probability of choosing a pink ball. [2]

Colour	Yellow	Red	Blue	Pink
Probability	0.54	0.12	0.25	

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(b) There are 575 blue balls in the play area. What is the total number of balls in the play area? [2]

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7. Use the formula $v = u + at$ to find the value of t when $v = 51.3$, $u = 2.3$ and $a = 9.8$. [3]

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Examiner
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11. (a) Evaluate $\sqrt{0.9^3 - 0.9^4}$. [2]

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(b) What is the greatest integer value of n if $2n < 17$? [1]

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Greatest integer value of $n =$

(c) What is the least integer value of n if $2^n > 125$? [1]

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Least integer value of $n =$



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only

14. A children's play area contains a large number of coloured balls.
Some are yellow, some are red, some are blue and the others are pink.

(a) A ball is chosen at random from the play area.
Complete the table below to find the probability of choosing a pink ball. [2]

Colour	Yellow	Red	Blue	Pink
Probability	0.54	0.12	0.25	

.....

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.....

(b) There are 575 blue balls in the play area.
What is the total number of balls in the play area? [2]

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15. Use the formula $v = u + at$ to find the value of t when $v = 51.3$, $u = 2.3$ and $a = 9.8$. [3]

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Examiner only

3. (a) Simplify the expression $7g - 8f - 4g + 3f$. [2]

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(b) Use the formula $F = 5T + 4R$ to find the **value of R** when $F = 23$ and $T = 3$. [3]

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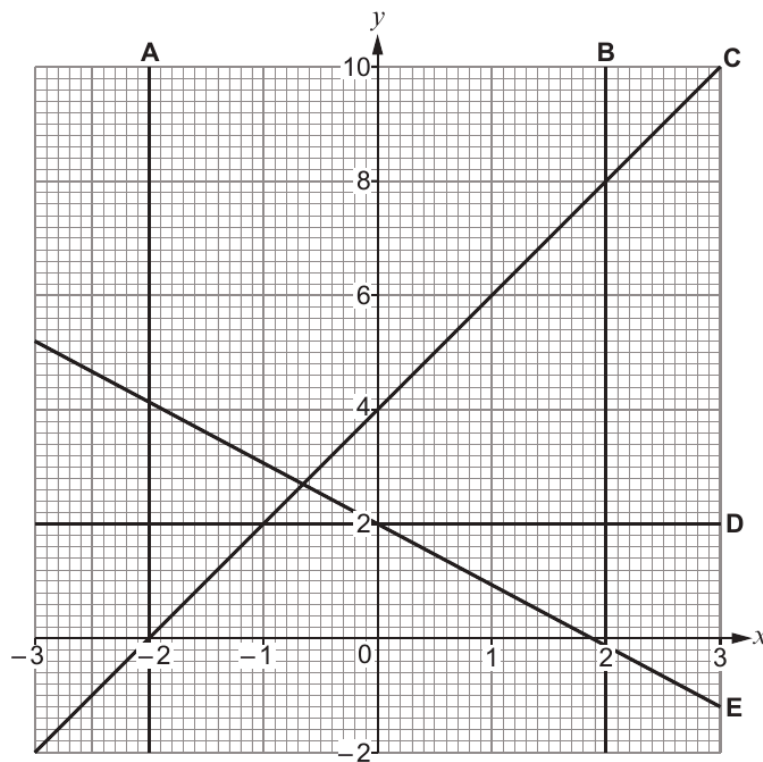
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(c) Which of the lines below is represented by the equation $y = 2$? Circle your answer. [1]

Line A Line B Line C Line D Line E



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8. (a) Solve $7x = 63$. [1]

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(b) Solve $27 - x = 19$. [1]

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(c) Simplify $17k - 8k + 5k$. [1]

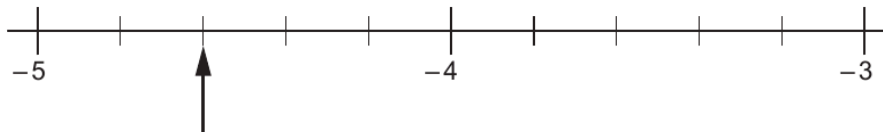
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9. (a) Write these numbers in order in the boxes below.
Start with the smallest number. [1]

3 -17 12 -6

Smallest \longrightarrow Largest

(b) A number line is shown below.
Which number is the arrow pointing to? [1]



The number is



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8. Use the formula $T = 4A + 8B$ to find the value of T when $A = 45$ and $B = 19$. [2]

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9. (a) Tomos wants to find the median of the numbers below.

7 1 20 14 11

He writes the answer 20.

Explain why Tomos's answer is incorrect. [1]

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(b) Ted writes down five numbers:

59 89 77 31 83

(i) Calculate the mean of Ted's numbers. [3]

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(ii) Every number in Ted's list is decreased by 3.
What is the mean of the numbers in his new list? [1]

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