



Name: \_\_\_\_\_

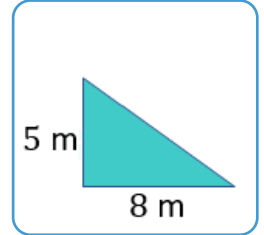
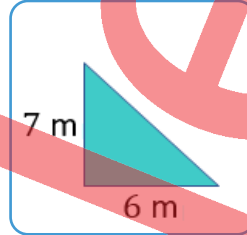
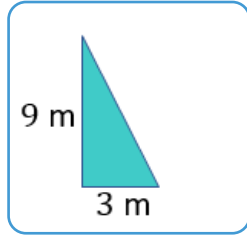
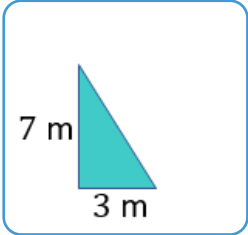
Pre-assessment mark:

Pre-assessment level:

Question 1

VCMMG258 - Level 7

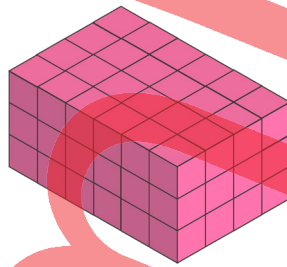
Which triangle has an area of  $21 \text{ m}^2$ ?



Question 2

VCMMG259 - Level 7

Which is the calculation to find the volume of this prism?



$24 \times 12$

$6 + 4 \times 3$

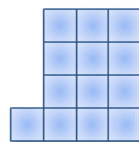
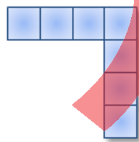
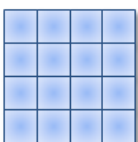
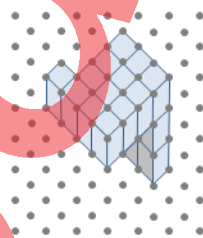
$6 \times 4 \times 3$

$24 + 12 + 18$

Question 3

VCMMG260 - Level 7

Which shape shows the correct top view of this three-dimensional object?

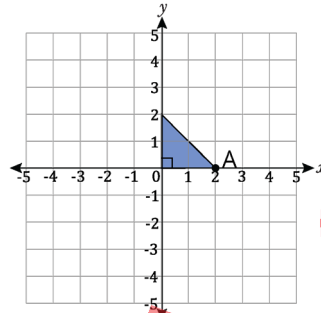




### Question 4

VCMMG261 - Level 7

If the drawn triangle is rotated  $90^\circ$  anti-clockwise about the origin, what are the coordinates of A'?

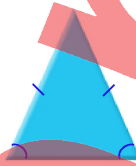


(  ,  )

### Question 5

VCMMG262 - Level 7

Which type of triangle is pictured?



equilateral triangle

isosceles triangle

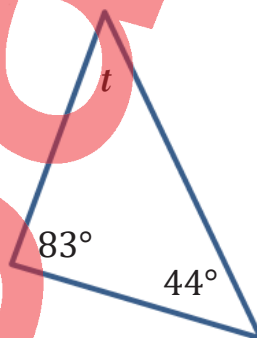
scalene triangle

right-angled triangle

### Question 6

VCMMG263 - Level 7

What is the value of  $t$ ?



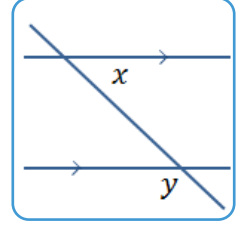
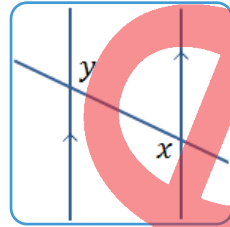
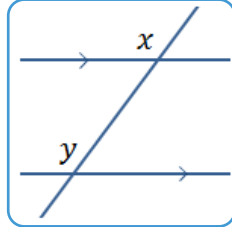
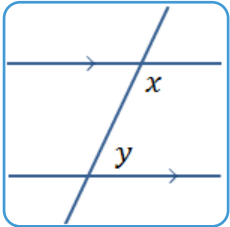
$t =$    $^\circ$



Question 7

VCMMG264 - Level 7

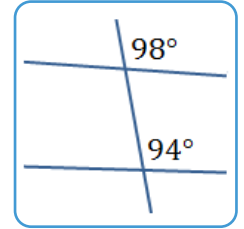
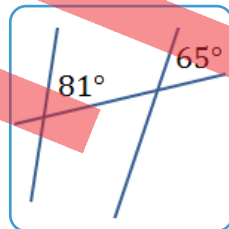
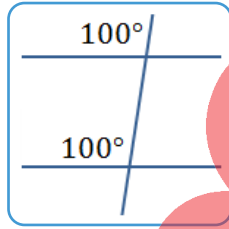
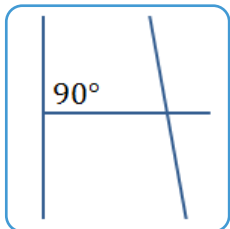
Which diagram is marked with corresponding angles?



Question 8

VCMMG265 - Level 7

Which diagram consists of lines that are parallel?



Question 9

VCMMG286 - Level 8

Convert the volume given to the unit of measurement shown.

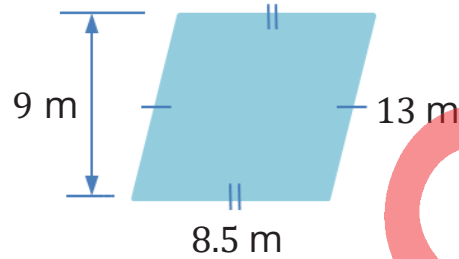
$3760 \text{ mm}^3 = \square \text{ cm}^3$



Question 10

VCMMG287 - Level 8

What is the perimeter of this parallelogram?



30.5 m

43 m

39 m

35 m

Question 11

VCMMG288 - Level 8

Which is the circumference of this circle, correct to 1 decimal place?

8 cm

12.6 cm

25.1 cm

50.3 cm

100.5 cm

Question 12

VCMMG289 - Level 8

Calculate the volume of this rectangular prism.



volume =  cm<sup>3</sup>



Question 13

VCMMG290 - Level 8

The flight leaves at 10:15 and takes 230 minutes. At approximately what time will the flight land?



01:00

12:00

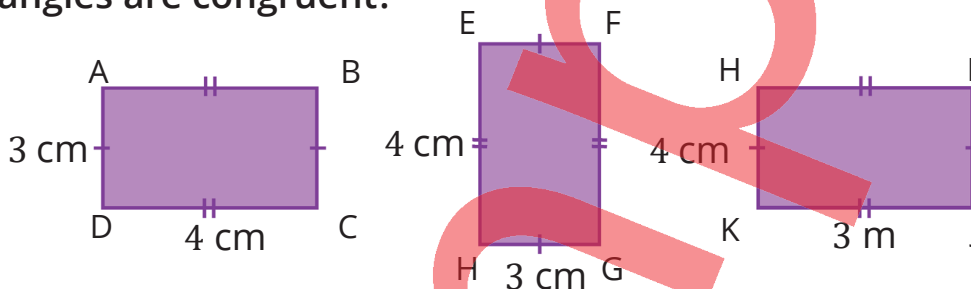
13:00

14:00

Question 14

VCMMG291 - Level 8

Which rectangles are congruent?



$ABCD \equiv EFGH$

$ABCD \equiv HIJK$

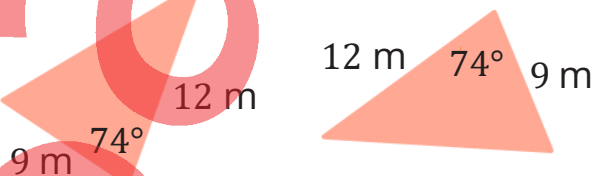
$ABCD \equiv HBFC$

$EFGH \equiv HIJK$

Question 15

VCMMG292 - Level 8

Which condition identifies this pair of triangles as congruent?



SSS

RHS

AAS

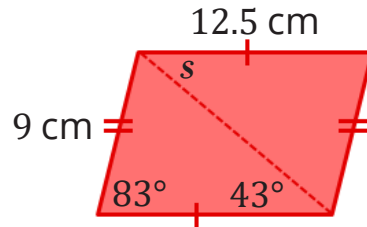
SAS



Question 16

VCMMG293 - Level 8

Calculate the value of the pronumeral in this parallelogram.



$s =$    $^{\circ}$

Sample





### Teacher reference

\* 1 mark for each correct answer

Question	Sub-Strand	Victorian Curriculum	Content Description
1	Using Units of Measurement	Level 7	Establish the formulas for areas of rectangles, triangles and parallelograms and use these in problem solving (VCMMG258)
2	Using Units of Measurement	Level 7	Calculate volumes of rectangular prisms (VCMMG259)
3	Shape	Level 7	Draw different views of prisms and solids formed from combinations of prisms (VCMMG260)
4	Location and Transformation	Level 7	Describe translations, reflections in an axis, and rotations of multiples of $90^\circ$ on the Cartesian plane using coordinates. Identify line and rotational symmetries (VCMMG261)
5	Geometric Reasoning	Level 7	Classify triangles according to their side and angle properties and describe quadrilaterals (VCMMG262)
6	Geometric Reasoning	Level 7	Demonstrate that the angle sum of a triangle is $180^\circ$ and use this to find the angle sum of a quadrilateral (VCMMG263)
7	Geometric Reasoning	Level 7	Identify corresponding, alternate and co-interior angles when two straight lines are crossed by a transversal (VCMMG264)
8	Geometric Reasoning	Level 7	Investigate conditions for two lines to be parallel and solve simple numerical problems using reasoning (VCMMG265)
9	Using Units of Measurement	Level 8	Choose appropriate units of measurement for area and volume and convert from one unit to another (VCMMG286)
10	Using Units of Measurement	Level 8	Find perimeters and areas of parallelograms, trapeziums, rhombuses and kites (VCMMG287)
11	Using Units of Measurement	Level 8	Investigate the relationship between features of circles such as circumference, area, radius and diameter. Use formulas to solve problems involving determining radius, diameter, circumference and area from each other (VCMMG288)
12	Using Units of Measurement	Level 8	Develop the formulas for volumes of rectangular and triangular prisms and prisms in general. Use formulas to solve problems involving volume (VCMMG289)
13	Using Units of Measurement	Level 8	Solve problems involving duration, including using 12- and 24-hour time within a single time zone (VCMMG290)
14	Geometric Reasoning	Level 8	Define congruence of plane shapes using transformations and use transformations of congruent shapes to produce regular patterns in the plane including tessellations with and without the use of digital technology (VCMMG291)
15	Geometric Reasoning	Level 8	Develop the conditions for congruence of triangles (VCMMG292)
16	Geometric Reasoning	Level 8	Establish properties of quadrilaterals using congruent triangles and angle properties, and solve related numerical problems using reasoning (VCMMG293)



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