AMESA 2026

PRESENTATION

Bringing fun into the classroom

Senior Phase

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Maths Games

Fizz Buzz

Fizz Buzz is a fast mental maths counting game that builds
· multiplication fluency
· pattern recognition
· attention & concentration

Maths 24

The Goal of **Maths 24** is to use the four given numbers to make 24.
It is a great game to build number sense, mental arithmetic and strategic thinking and can improve working with the order of operations and increase flexibility with numbers.

Target Number

The goal of **Target Number** is to hit the target exactly, using the six given numbers at most once each using the four basic operations. This game builds mental agility while mastering the order of operations.

5 min Energisers

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for more energisers & more details

5 min Energisers

Related Categories

Category: Things involving 12

Possible answers: Clock
Dozen
Multiplication table
Factors

Excellent for broad mathematical thinking.

Mystery Number

Make a statement about a mystery number and then provide criteria that need to hold to then lead to the discovery of the number.

My number is a two-digit number.
· It is a square number.
· It is the sum of two or more cube numbers.

(The answer: 36)

Spot the Mistake

Display a statement on the board with an error and then ask: "What went wrong?"

Something like: [3(2x+4)=6x+4]

Exercise 6 (Part 2, page 137)

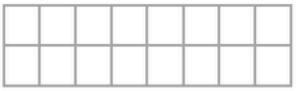
Solutions on p. A293

1. Rectangles A to E all have a perimeter of 20 m.

   Use these rectangles to answer the questions that follow.

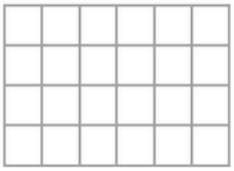
Rectangle A

Rectangle B

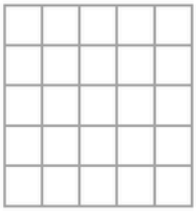


Rectangle C

Rectangle D



Rectangle E



	ℓ	b	Area
A	9 m		
B	8 m		
C	7 m	3 m	21 m^2
D	6 m		
E	5 m		

1.1 Complete the table.

1.2 Which rectangle has the biggest area?

1.3 Consider this rectangle with the biggest area from 1.2.

1.3.1 What is the area of this rectangle?

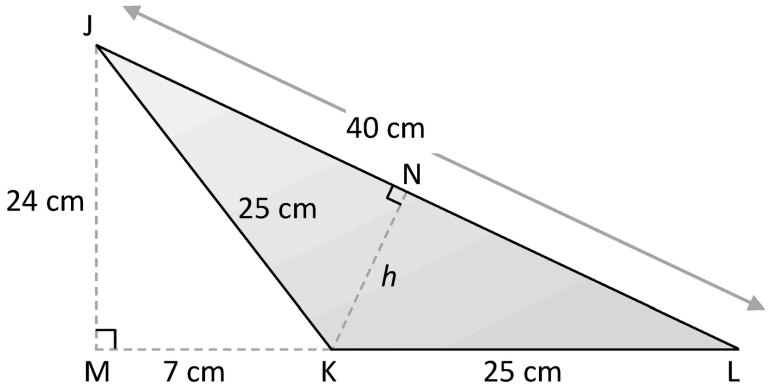
1.3.2 State the dimensions of this rectangle.

1.3.3 What is special about this rectangle?

Exercise 12 (Part 2, page 146)

Solutions on p. A301

4.



4.1 Calculate the area of ΔJMK.

4.2 Calculate the area of ΔJML.

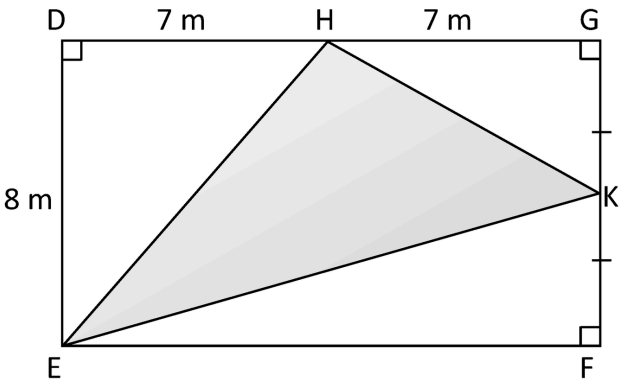
4.3 Calculate the area of ΔJKL in two different ways.

4.4 Calculate the value of *h*. (*h* is the length of KN)

Exercise 13 (Part 2, page 147)

Solutions on p. A301

1.



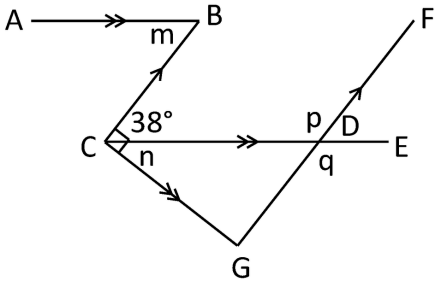
1.1 Calculate the area of ΔHEK.

1.2 What fraction of rectangle DEFG is shaded?

Exercise 12.1 (Page 43)

Answers on p. A53

7.9

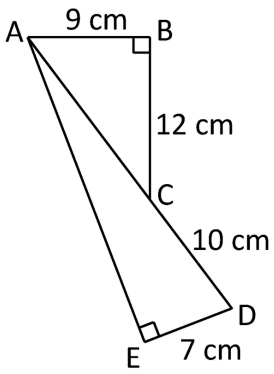


(12)

Exercise 15.1 (Page 49)

Answers on p. A64

4. Refer to the diagram below:



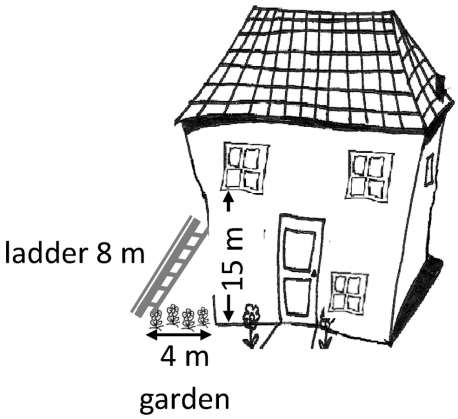
4.1 Calculate the length of AC. (3)

4.2 Hence, determine the length of AE. (5)

Exercise 15.2 (Page 50)

Answers on p. A64

5. Richard locked the house keys in his house.
   The only way into the house is through the open window on the second floor.
   The window is 15 m high. The garden surrounding the house extends 4 m from the wall.
   The ladder is 8 m long.



Use your knowledge of triangles and without any calculation, explain to Richard why the ladder cannot reach the window. (2)

Exercise 10.3 (Page 34)

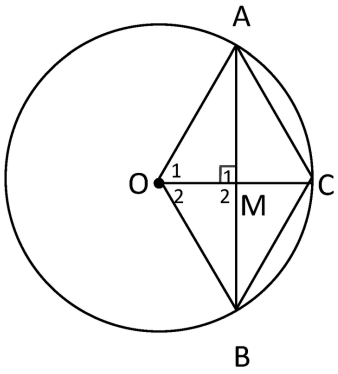
Answers on p. A45

8. Consider the following diagram:

   O is the centre of the circle and A, B and C are points on the circle.

   AM = MB

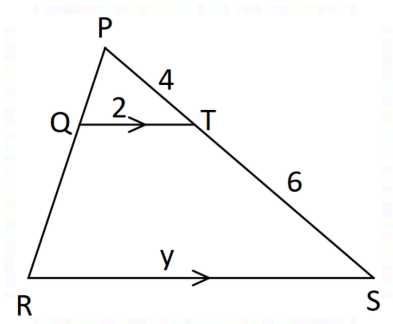
   OM ⊥ AB



NB: Always give reasons!

Prove that $\Delta OAM \equiv \Delta OBM$. (4)

11. In ΔPRS, QT || RS



11.1 Prove that ΔPQT ||| ΔPRS. (3)

11.2 Hence, determine the value of y. (2)

SCAN ME for solutions

Exercise 12.1 (Page 42)

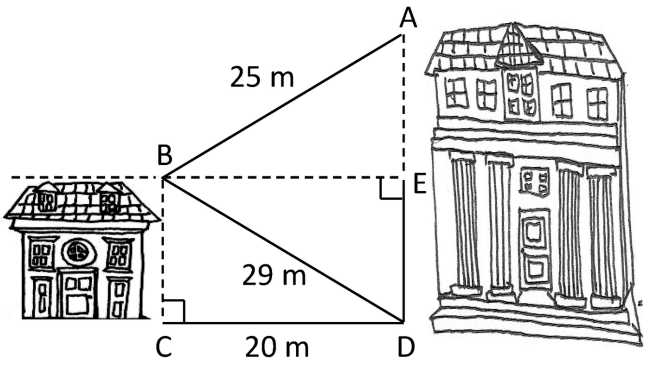
Answers on p. A53

4. Two houses are built 20 metres apart.

   The slant distance between the foot of the large house and the roof top of the small house is 29 m.

   The slant distance from the roof top of the small house to the roof top of the large house is 25 m.

   Use the diagram below to calculate the height of the larger house. (5)



Exercise 13.3 (Page 47)

Answers on p. A57

3. A playground is in the form of a rectangle with the length 2 m longer than the breadth. A new rectangular playground is planned that will be 2 m longer than the original length and with breadth 1 m shorter than that of the original breadth.

   3.1 Determine the difference in perimeter of the two playgrounds. (5)

   3.2 If both playgrounds are to have the same area, determine the dimensions of the original playground. (8)

Hands-on Acitivities

Finding π

Equipment

- tape measure **or** string & ruler
- calculator

Circular Object	Circumference	Diameter	$\frac{\text{cirumference}}{\text{diameter}}$
can	232 mm	70 mm	3,314

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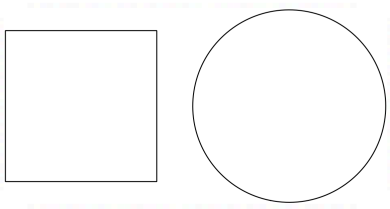
Hands-on Acitivities

Comparing areas with fixed perimeters

(and vice versa)



Equipment

- string (e.g. 16 cm)
- calculator

2.1 Using whole numbers, work out the possible areas of different rectangles.

perimeter	half perimeter	length	breadth	area
16	8	7	1	7

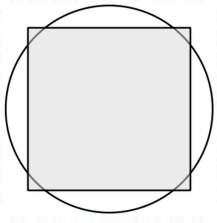
2.2 Calculate the area of a circle with the circumference equal to the perimeter above.

2.3 A square and a circle each have a perimeter of 40 cm.

Calculate the area of the

2.3.1 square

2.3.2 circle

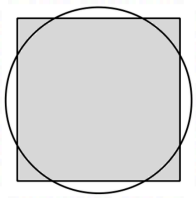


2.4 A square and a circle each an area of 64 units^2.

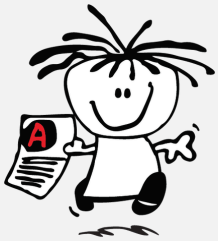
Calculate the perimeter of the

2.4.1 square

2.4.2 circle



Thank You



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