

Year 7 Class 21 questions

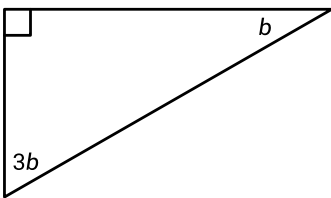
Q1

A triangle with three equal sides is called:

- an isosceles triangle
- a right-angled triangle
- an equilateral triangle
- a scalene triangle

Q2

Complete the working shown to find the value of b .



$$b + 3b + 90^\circ = 180^\circ \quad (\angle \text{ sum of } \Delta)$$

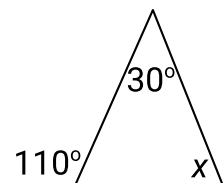
$$4b + 90^\circ = 180^\circ$$

$$4b = \boxed{}^\circ \quad 4b = 90^\circ$$

$$b = \boxed{}^\circ \quad b = 22.5^\circ$$

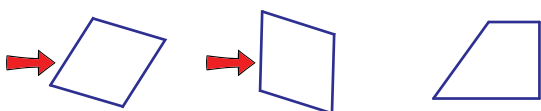
Q3

Find the value of x . $\boxed{}^\circ$
80



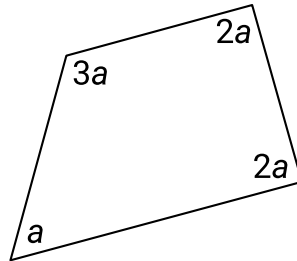
Q4

Select all the rhombuses.



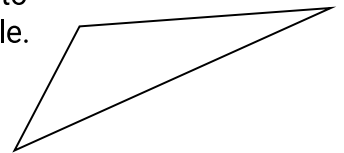
Q5

Find the value of a . $\boxed{}^\circ$
45



Q6

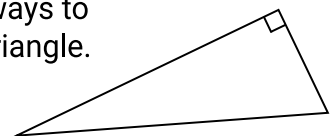
Choose TWO ways to describe this triangle.



- | | |
|---|---|
| <input checked="" type="checkbox"/> scalene | <input type="checkbox"/> acute-angled |
| <input type="checkbox"/> equilateral | <input checked="" type="checkbox"/> obtuse-angled |
| <input type="checkbox"/> right-angled | <input type="checkbox"/> isosceles |

Q7

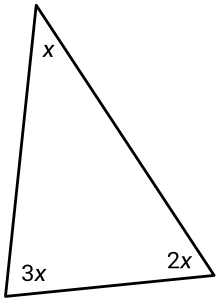
Choose TWO ways to describe this triangle.



- | | |
|--|--|
| <input checked="" type="checkbox"/> scalene | <input type="checkbox"/> acute-angled |
| <input type="checkbox"/> equilateral | <input type="checkbox"/> obtuse-angled |
| <input checked="" type="checkbox"/> right-angled | <input type="checkbox"/> isosceles |

Q8

Find the value of x .

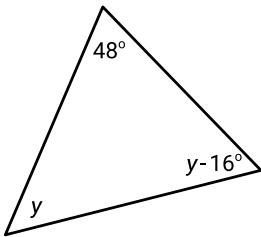


$$x = \boxed{}^\circ$$

30°

Q9

Complete the working shown to find the value of y .



$$y + y - 16^\circ + 48^\circ = 180^\circ \quad (\angle \text{ sum of } \triangle)$$

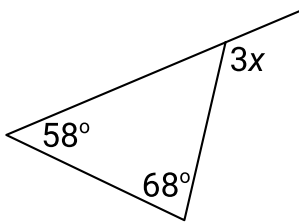
$$2y + 32^\circ = 180^\circ$$

$$2y = \boxed{}^\circ \quad 2y = 148^\circ$$

$$y = \boxed{}^\circ \quad y = 74^\circ$$

Q10

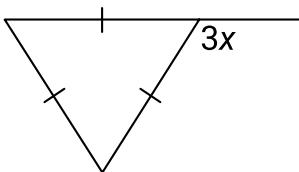
Find the value of x . $\boxed{}^\circ$



42

Q11

Find the value of x . $\boxed{}^\circ$



40

Q12

Choose ALL of the correct descriptions for a square.

- All angles are 90° .
- Angles add up to 180° .
- There are 4 axes of symmetry.
- The diagonals are equal.

Q13

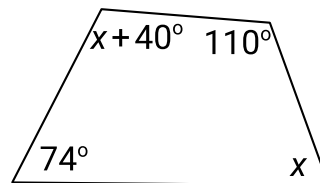
Choose ALL of the correct descriptions for a kite.

- There is 1 axis of symmetry.
- Opposite sides are parallel.
- All angles are 90° .
- Angles add up to 360° .

Q14

Find the value of x . $\boxed{}^\circ$

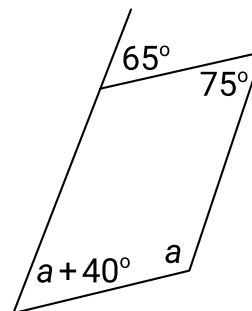
68



Q15

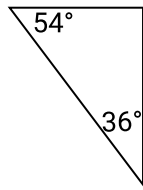
Find the value of a . $\boxed{}^\circ$

65



Q16

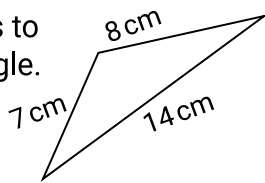
Choose TWO ways to describe this triangle.



- scalene
- equilateral
- right-angled
- acute-angled
- obtuse-angled
- isosceles

Q17

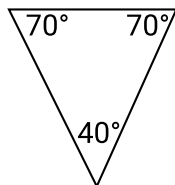
Choose TWO ways to describe this triangle.



- scalene
- equilateral
- right-angled
- acute-angled
- obtuse-angled
- isosceles

Q18

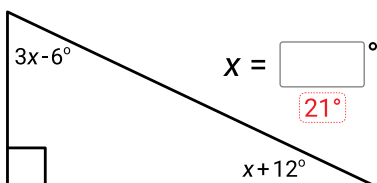
Choose TWO ways to describe this triangle.



- scalene
- equilateral
- right-angled
- acute-angled
- obtuse-angled
- isosceles

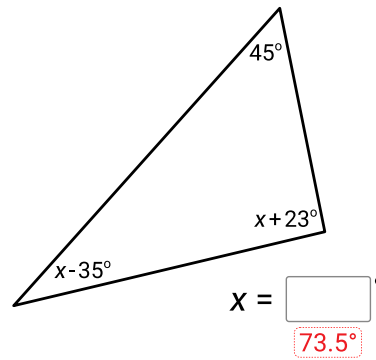
Q19

Find the value of x.



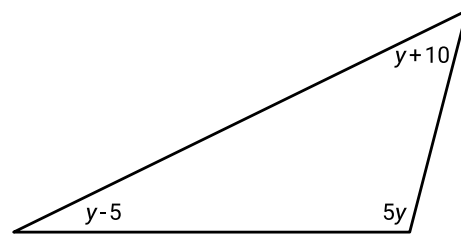
Q20

Find the value of x.



Q21

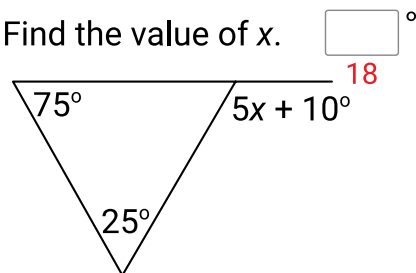
Find the value of y.



$y = \boxed{25}^\circ$

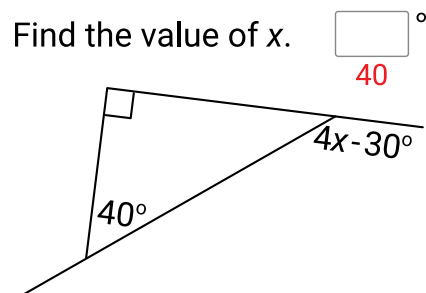
Q22

Find the value of x.



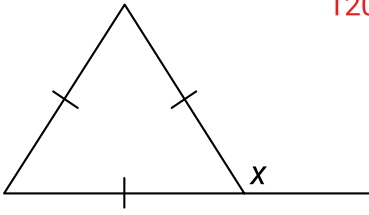
Q23

Find the value of x.



Q24

Find the value of x . °
120



Q25

How many axes of symmetry does a rhombus have?

2

Q26

A shape has 2 pairs of parallel sides and 4 right angles. It has 2 axes of symmetry. What is the name of the shape?

Rectangle

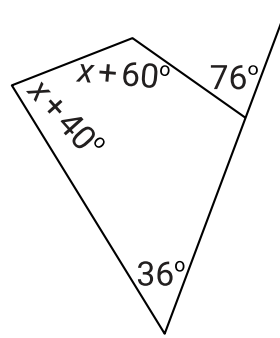
Q27

Which of the following is NOT a parallelogram?

- Square
- Trapezium
- Rectangle
- Rhombus

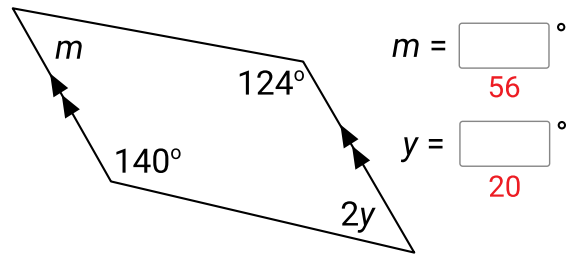
Q28

Find the value of x . °
60



Q29

Find the values of m and y .



$m =$ °
56
 $y =$ °
20

Q30

Find the value of x . °
33.6

