Test - Angles, shapes and symmetry

Year: Year 4 · Duration: 35 minutes · /20

Name:	Date:	**Mark:** /20

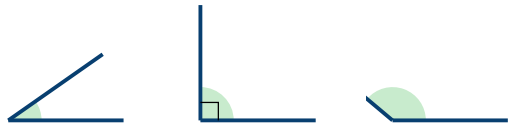
Question	1	2	3	4	5	Total
marks	4	4	4	4	4	**20**
Mark						

Show your working.

Question 1 (4 marks)

Question 1 – Angles

Look at the angles.



a. Name each type of angle (the first is the smallest). (3 marks)
b. Which angle is a quarter turn? (1 mark)

Question 2 (4 marks)

Question 2 – Triangles and polygons

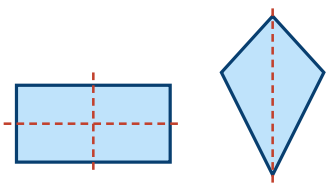
Answer each part.

a. A triangle has sides of 6 cm, 6 cm and 4 cm. What type is it? (1 mark)
b. How many sides has a hexagon? And an octagon? (2 marks)
c. A regular pentagon has sides of 7 cm. What is its perimeter? (1 mark)

Question 3 (4 marks)

Question 3 – Symmetry

Look at the shapes.



a. How many lines of symmetry does the rectangle have? (1 mark)
b. How many lines of symmetry does the kite have? (1 mark)

c. How many lines of symmetry does an equilateral triangle have? (1 mark)
d. Name a shape with exactly 4 lines of symmetry. (1 mark)

Question 4 (4 marks)

Question 4 – The clock

At 5 o’clock the hands of a clock make an angle. Each hour mark is 30° from the next.



a. What is the angle between the hands at 5 o’clock? (2 marks)
b. What type of angle is it? (1 mark)
c. At what o’clock time do the hands make a right angle? (1 mark)

Question 5 (4 marks)

Question 5 – The floor tiles

A hall floor is covered with tiles that are regular hexagons. Each hexagon has sides of 10 cm. A border is made of squares with sides of 10 cm.

a. What is the perimeter of one hexagon? (1 mark)
b. How many lines of symmetry does a hexagon tile have? (1 mark)
c. The border has 30 square tiles in a row, side by side. What is the length of the row? (1 mark)
d. A square tile has a perimeter of 40 cm. Is that correct? Explain. (1 mark)