Test - Angles and lines

Year: Year 3 · Duration: 30 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 – Turns and angles

Answer each question.

a. How many right angles make a full turn? (1 mark)
b. A spinner turns a half turn. How many right angles is that? (1 mark)
c. The minute hand moves from 12 to 9. What turn is this? (1 mark)
d. Is a turn of 3 right angles clockwise or anticlockwise if it follows the hands of a clock? Explain. (1 mark)

Question 2 (4 marks)

Question 2 – Types of angle

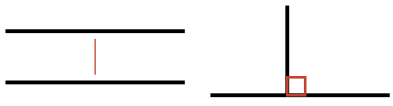
Here are three angles.

a. Angle A is the corner of a sheet of paper. What type of angle is it? (1 mark)
b. Angle B is smaller than a right angle. What is it called? (1 mark)
c. Angle C is bigger than a right angle but smaller than a half turn. What is it called? (1 mark)
d. Draw or describe an object in the classroom with a right angle in it. (1 mark)

Question 3 (4 marks)

Question 3 – Lines

Look at these lines and answer.



a. A line goes straight up and down. What is it called? (1 mark)
b. A line is level like the horizon. What is it called? (1 mark)
c. Two lines meet at a right angle. What word describes them? (1 mark)
d. Two lines are always the same distance apart. What word describes them? (1 mark)

Question 4 (4 marks)

Question 4 – Shapes

Look at a rectangle.

a. How many right angles does a rectangle have? (1 mark)
b. How many pairs of parallel sides does it have? (1 mark)
c. Which sides of a rectangle are perpendicular? (2 marks)

Question 5 (4 marks)

Question 5 – Problem: the maze

Sam programs a toy car to drive along the edge of a rectangular carpet. The car starts at a corner facing along the long side. It goes forward, turns a quarter turn clockwise at each corner and stops back at the start.

a. How many right angle turns does the car make to go round the carpet once? (1 mark)
b. What is the total turn in right angles? What kind of turn is this? (1 mark)
c. The car faces the same way it started. Sam says "The car did not turn at all." Is he right? Explain. (1 mark)
d. On the way, the car drives along two sides that are parallel. How many pairs of parallel sides does the carpet have? (1 mark)