Starter

1) Write the place value of the underlined digit under each of the numbers.

27,502	71,918	132,825	749,327	28,176
500				

513,295	834,247	36,429	625,231	917,438

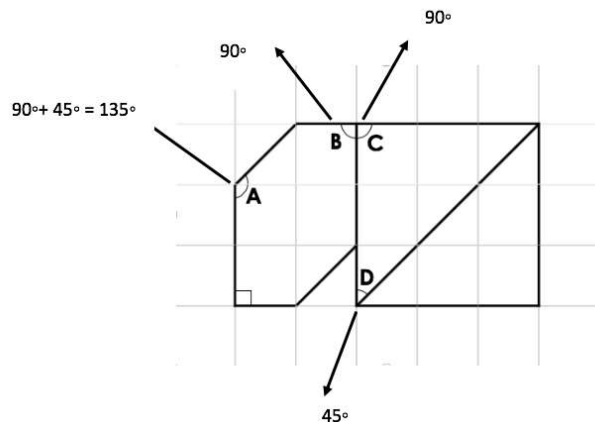**Year 5 Maths**

Steppingstone activity

Summer week 6 Lesson 5 – 05.06.20

LO: To calculate length and angles in shapes

Success Criteria:

1. Remember right angles = 90°
2. Half a right angle = 45°
3. Angles on a straight line = 180°
4. Angles on a point = 360°

Model

What do you know about the angles in this shape?

Various answers, for example:
A + B + C + D + E = 360°   A + B + C = 180°   E + D = 180°
B + C + D = 180°   A + E = 180°

B+C+D = angles on a straight line.

A+E = angles on straight line

A+B+C+D+E = angles around a point.

Now complete these:

1a. Calculate the length of sides A, B and C.

2a. Calculate angles A and B.

3a. Side A is 6cm. True or false?

4a. Match the angles and lengths to the shape.
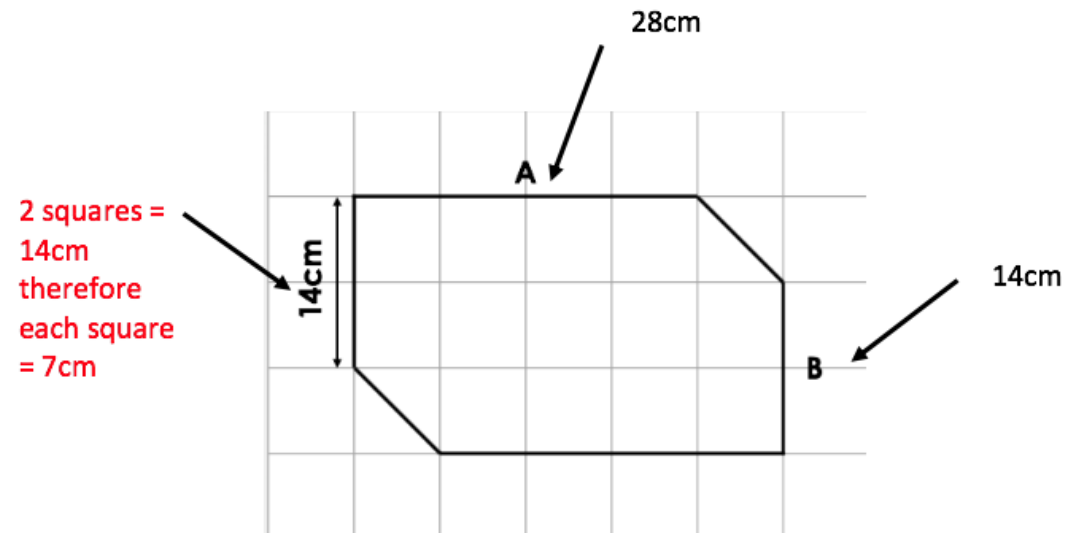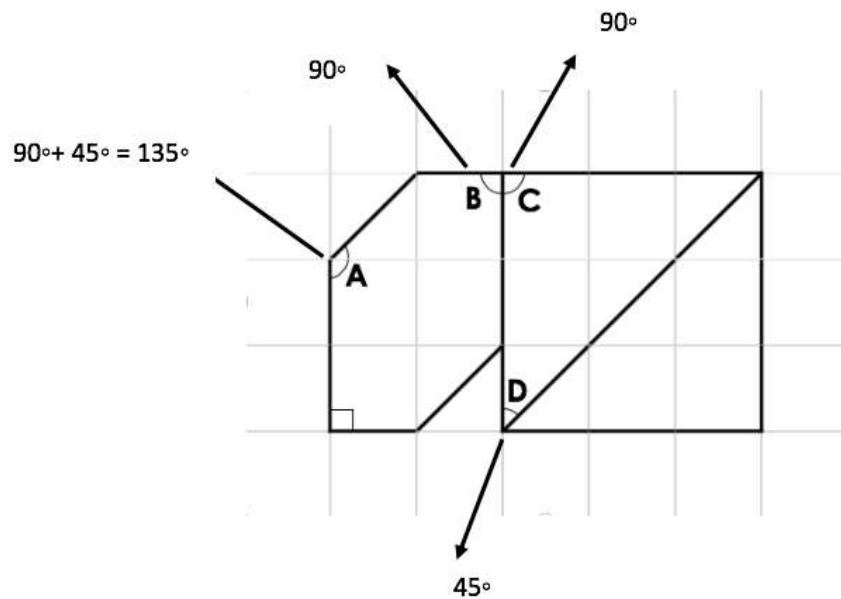
1. 270°
2. 3cm
3. 5cm
4. 90°

Year 5 Maths

Summer week 6 Lesson 5 – 05.06.20
LO: To calculate length and angles in shapes
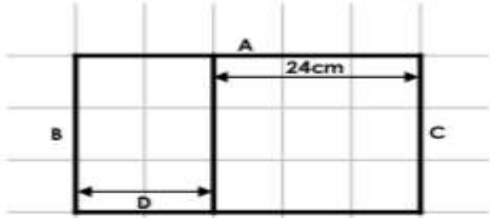**Success Criteria:**

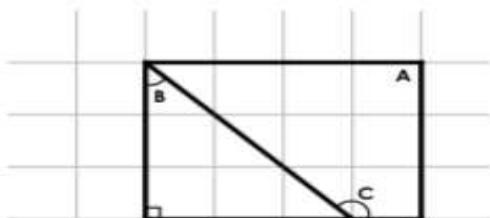|	
1. Remember right angles = 90°	2.
3. Half a right angle = 45°	4.
5. Angles on a straight line = 180°	6.
7. Angles on a point = 360°	8.

Model:

90°

90°

90°+ 45° = 135°

B C

A

D

45°

28cm

2 squares =
14cm
therefore
each square
= 7cm

A

14cm

14cm

B

Task 1	Task 2	Task 3

Task 1

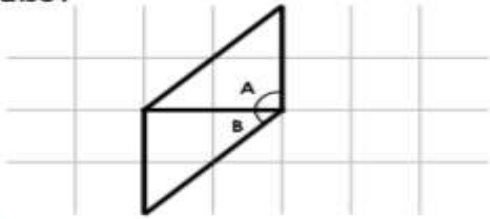5a. Calculate the length of sides A, B, C and D.

A
24cm
B
C
D

6a. Calculate angles A, B and C.

A
B
C

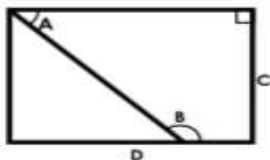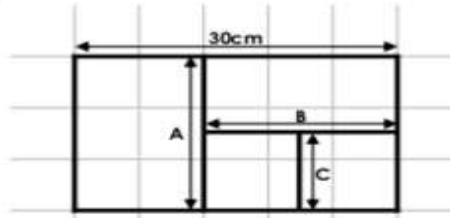7a. Angle A and Angle B total 145°. True or false?

A
B

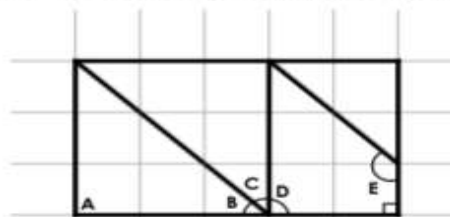8a. Match the lengths and angles to the shape.

1. 12cm
2. 135°
3. 45°
4. 9cm

A
C
B
D

Task 2

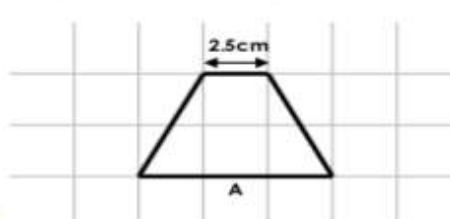9a. Calculate the length of sides A, B and C.
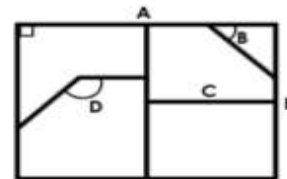
30cm
A
B
C

10a. Calculate angles A, B, C, D and E.

A
B
C D
E

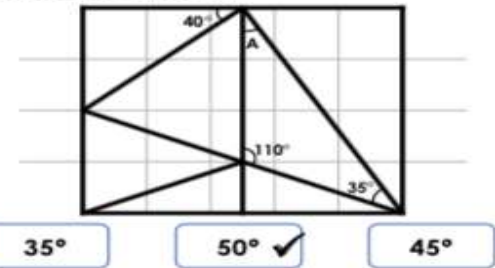11a. Side A is 7cm. True or false?

2.5cm
A

12a. Match the lengths and angles to the shape.

1. 9cm
2. 12cm
3. 45°
4. 135°
5. 6cm

A
B
D
C
E

Task 3

7a. Liam thinks he has picked the correct degrees for angle A.

40°
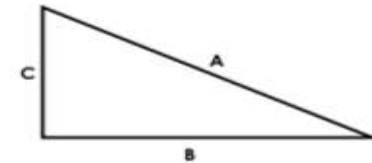A
110°
35°

| 35° | 50° ✓ | 45° |

Do you agree? Explain why.

8a. Bridget has a triangle with a perimeter of between 15cm and 30cm. Side A is 2cm longer than side B. Side B is 5cm longer than side C.

C
A
B

What length is each side? Give 3 possible answers.

9a. Jordan and Tia are calculating angles in a shape.

A quadrilateral always has at least one right angle.

Jordan

A quadrilateral sometimes has a right angle but can have angles less and more than 90°.

Who is correct? Why?

Tia