Year 6 maths: Angles on a line and at a point (Easy)

Maths · Shapes and space
Level: Easy

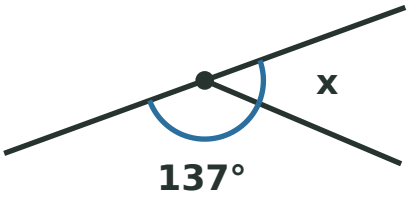
Student: _____ Date: _____

Instructions
- There are 10 questions. Read each one carefully.
- Write your answers on this paper. Use the space under a question to work it out.
- A grown-up can read a question aloud — that's fine.
- The answers are at the end. Check them together when you have finished.

Questions

1. Use the straight line to work out angle x.

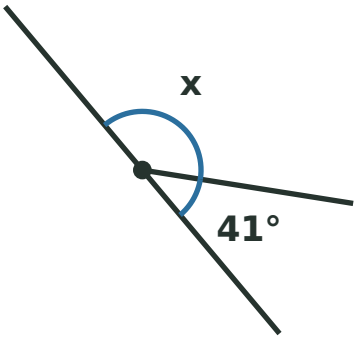
Answer: ____ °



Working:

2. What is the size of angle x on this straight line?

Answer: ____ °



Working:

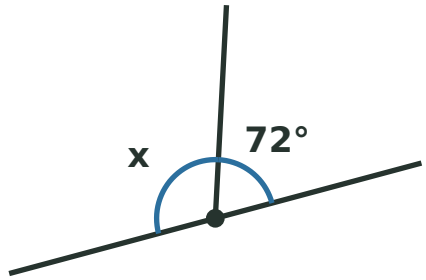
3. Angles on a straight line add up to how many degrees?

Circle one answer.

○ **A** 360° ○ **B** 90° ○ **C** 180° ○ **D** 270°

4. Angle x and a 72° angle lie on a straight line. Which calculation finds x?

Circle one answer.

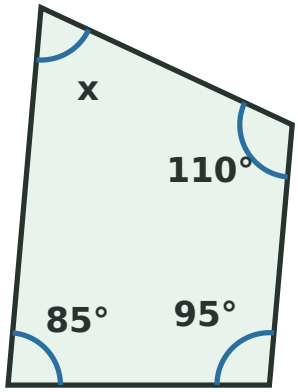


○ **A** 90 − 72 ○ **B** 180 − 72

○ **C** 180 + 72 ○ **D** 360 − 72

5. Three angles of this four-sided shape are marked. Find x.

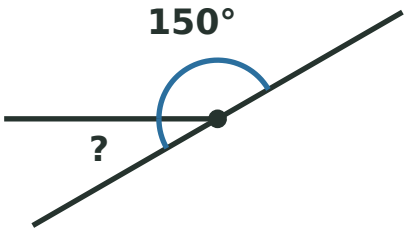
Answer: ____ °



Working:

6. One angle on a straight line is 150°. How big is the other angle?

Circle one answer.



○ **A** 150° ○ **B** 210° ○ **C** 60° ○ **D** 30°

7. Which angle is larger, 160° or a reflex angle?

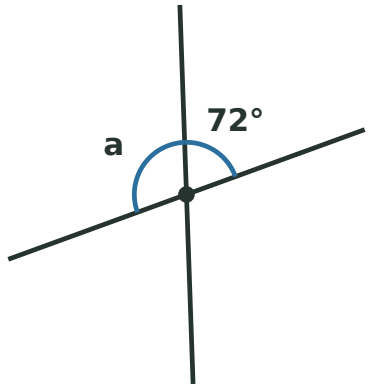
Circle one answer.

○ **A** They could be the same size ○ **B** 160°

○ **C** a reflex angle

8. Two straight lines cross. One angle is 72°. Find angle a, which is next to it.

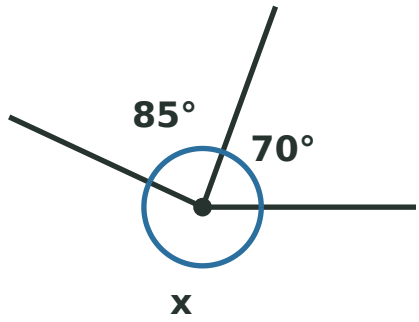
Answer: ____ °



Working:

9. Three angles meet at a point: 70°, 85° and x. What is x?

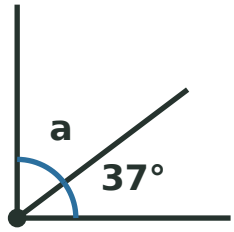
Circle one answer.



○ **A** 25° ○ **B** 205° ○ **C** 155°

10. Angle a and a 37° angle together make a right angle. What is angle a?

Circle one answer.



○ **A** 143° ○ **B** 53° ○ **C** 37°

Answer key

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1. 43°
Angles on a straight line add to 180°. 180 − 137 = 43°.

2. 139°
Angles on a straight line add to 180°. 180 − 41 = 139°.

3. C — 180°
A straight line is a half turn: 180°.

4. B — 180 − 72
Angles on a straight line add to 180°, so x = 180 − 72 = 108°.

5. 70°
Angles in a four-sided shape add to 360°. 85 + 95 + 110 = 290, and 360 − 290 = 70°.

6. D — 30°
180 − 150 = 30°.

7. C — a reflex angle
A reflex angle is bigger than 180°, so it is always larger than 160°.

8. 108°
Angles next to each other on a straight line add to 180°. 180 − 72 = 108°.

9. B — 205°
Angles round a point add to 360°. 70 + 85 = 155. 360 − 155 = 205°.

10. B — 53°
A right angle is 90°. 90 − 37 = 53°.