Protractors

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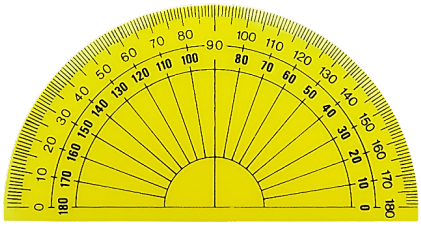

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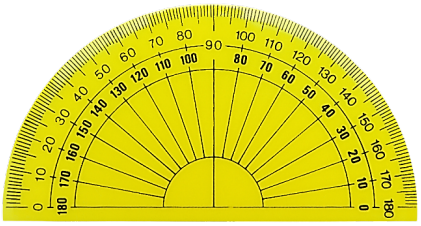

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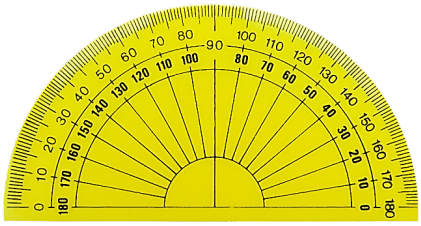

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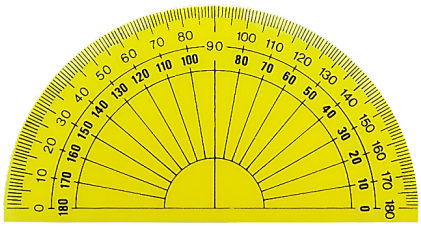

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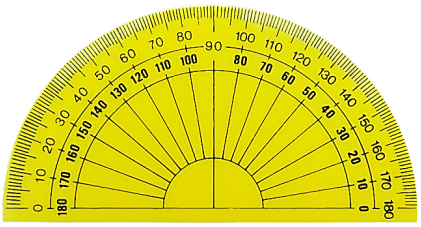

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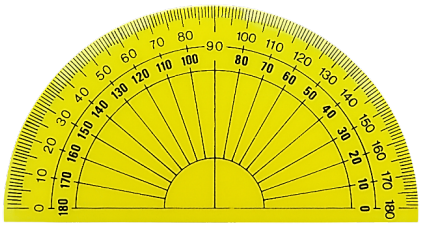

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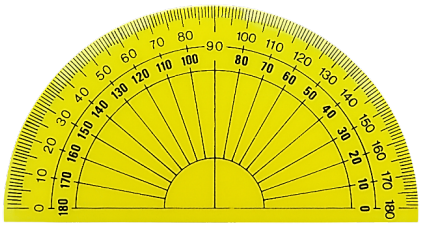

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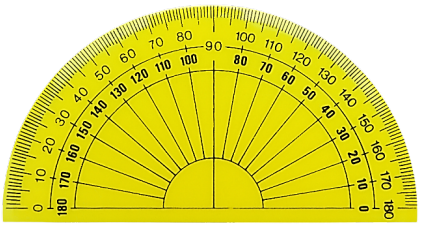

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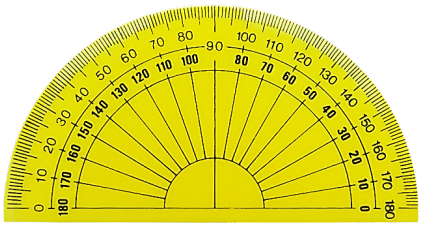

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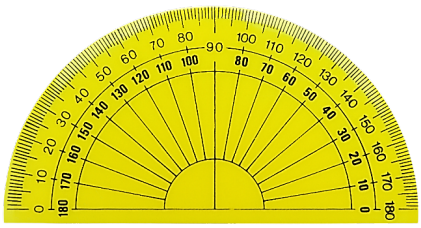

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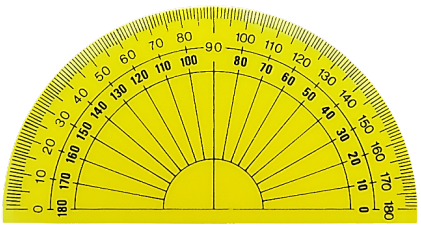

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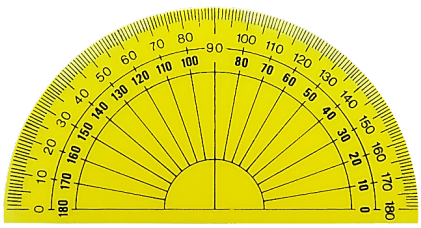

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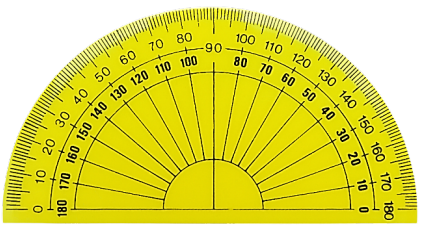

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Arithmetic

1. 3.04 + 3.07

2. 63 ÷ 100

3. 7,200 ÷ 90

4. 3,688 ÷ 4

Practice: Draw angles up to 180°

5. Recap: A straight line is ?°.

A right angle is ?°.

Halfway between 0° and 90° is ?°.

6. Draw lines measuring:

a. 3cm 7mm b. 7.3cm c. 30mm

7. Draw angles showing:

a. 10° b. 85° c. 134°

8. Draw angles showing:

a. 94° b. 29° c. 175°

9. Draw an angle between:

a. 140° and 180° b. 30° and 50°

c. 110° and 120°

10. Explain how you would draw an angle of approximately 100° without a protractor.

11. Draw angles:

a. 75° with a line 5cm long

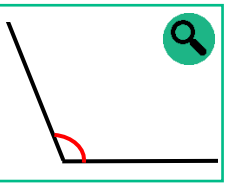
b. 146° with a line 8.5cm long

12. Draw angles:

a. 95° with a line 2cm long

b. 162° with a line 4.3cm long

13. Anita says she has drawn an angle showing 70°. Without a protractor, can you tell if she is correct?



Challenge

14. Without using a protractor draw these angles.

a. less than 90°

b. between 135° and 180°

c. between 45° and 110°

d. between 80° and 120°

You might want to talk to an adult

Spot the mistake

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Answers

Q no.	Question	Answer
1	3.04 + 3.07	6.11
2	63 ÷ 100	0.63
3	7,200 ÷ 90	80
4	3,688 ÷ 4	922
5	A straight line is ?°. A right angle is ?°. Halfway between 0° and 90° is ?°.	180°, 90°, 45°
6	Draw lines measuring:	Lines to be drawn accurately.
7	Draw angles showing:	Angles should be drawn on the protractors page accurately.
8	Draw angles showing:	Angles should be drawn on the protractors page accurately.
9	Draw an angle between:	Accept accurately drawn angles between degrees stated.
10	Explain how you would draw an angle of approximately 100° without a protractor.	Answers will vary for this answer. You would expect pupils to identify that 100° is close to 90° and that they could use this information to estimate the angle.
11	Draw angles:	Accept answers that display the correct angle and have the accurate length lines.
12	Draw angles:	Accept answers that display the correct angle and have the accurate length lines.
13	Anita says she has drawn an angle showing 70°. Without a protractor, can you tell if she is correct?	The angle she has drawn is an obtuse angle. As 70° is an acute angle, she is incorrect.
14	Without using a protractor draw these angles.	Pupils need to use their understanding of angles to draw the angles accurately. All of the given measures work with an understanding of how to find 90° and half a right angle (45°). Accept answers that are roughly accurate.

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