Steady Steps Maths

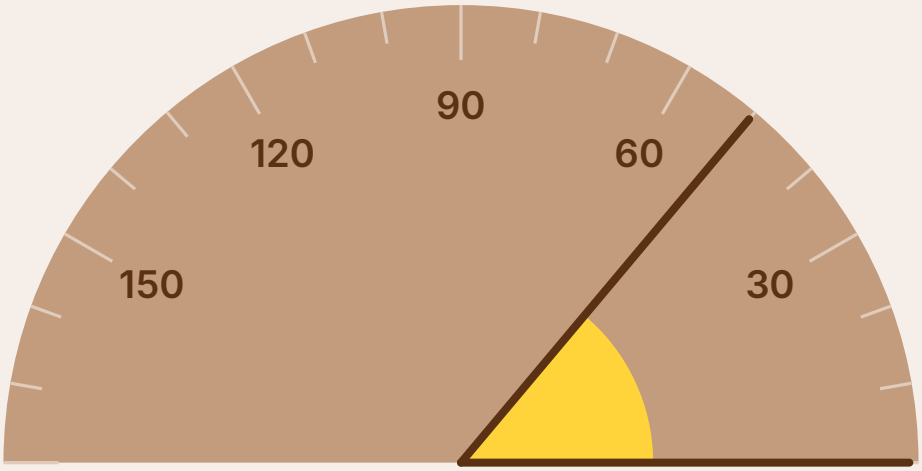
FREE SAMPLE WORKSHEET · TOPIC 10

FREE SAMPLE

Angles

Free sample worksheet · with answers

GRADE 4



50°

Common Core 4.MD.C.5–7

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Name _____ Date _____

Quick recap

The big idea from each pack in this topic. Read it first, then try the questions.

Learn it · Pack 1 · Angles and degrees

A full turn is 360°. Divide 360° into equal parts.

$\frac{1}{8}$ of a turn: 360 ÷ 8 = **45°**

Learn it · Pack 2 · Measuring angles

Centre on the vertex. Read the scale that starts at 0.

Estimate first: an obtuse angle is more than **90°**

Learn it · Pack 3 · Unknown angles

The parts add up to the whole angle.

Straight line: 180° − 125° = **55°**

PACK 1 Understanding Angles & Degrees

1. How many degrees are in a three quarter turn?

   Answer

2. $\frac{5}{6}$ of a full turn = □°

   Answer

3. Is an angle of 105° acute, right, obtuse or straight?

   Answer

4. A minute hand turns from 12 to 2. How many degrees is that?

   Answer

5. An angle turns through 72 one-degree angles. How big is it?

   Answer

6. Estimate: is this angle about 40°, 90° or 140°?



   Answer

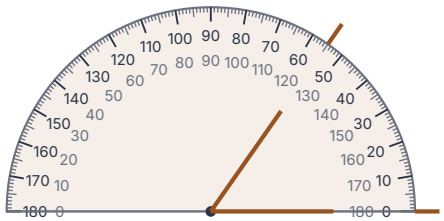
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PACK 2

Measuring & Drawing Angles

7 What angle does the protractor show?

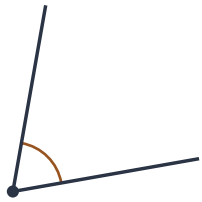


Answer

8 A ray is at 0 on the inner scale. The other ray is at 125 on the inner scale and 55 on the outer. How big is the angle?

Answer

9 Measure this angle with a protractor.



Answer

10 Draw an angle of 115° on a ray of your own.

Answer

11 Tom measures an acute angle and reads 160°. What should it be?

Answer

12 Is 95° a sensible measurement for an angle smaller than a right angle?

Answer

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PACK 3

Finding Unknown Angles

13 An angle is split into 48° and 27°. How big is the whole angle?

Answer

14 A right angle is split into two parts. One part is 33°. Find the other.

Answer

15 Two angles on a straight line: one is 128°. Find the other.

Answer

16 Solve: 65° + x = 180°

Answer

Real life

Read carefully, then show your working

17 A door opens 40°, and then opens another 35°.
(a) How far is it open now? (b) How many more degrees until it is open at a right angle?

Answer

18 A round pizza is cut from the centre into 8 equal slices.
(a) What is the angle at the point of each slice? (b) Huda eats 3 slices. What is the angle of the gap she leaves?

Answer

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Answer key

For parents · check the steps as well as the final answer

Pack 1	**1)** 270° **2)** 300° **3)** obtuse **4)** 60° **5)** 72° **6)** about 140°
Pack 2	**7)** 55° **8)** 125° **9)** 70° (± 2°) **10)** a 115° angle (check with a protractor) **11)** 20° **12)** no: it must be less than 90°
Pack 3	**13)** 75° **14)** 57° **15)** 52° **16)** x = 115°
Real life	**17)** (a) 75° (b) 15° **18)** (a) 45° (b) 135°

Tip: Before reading a protractor, ask: is the angle smaller or bigger than a right angle? That tells you which scale to use.

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Enjoyed this sample?

This sheet has 18 questions. The full topic has 121, plus 10 unit tests.

Everything a Grade 4 student needs on angles: angles as turns, degrees as fractions of a full turn, acute, right and obtuse angles, reading a protractor, measuring and drawing angles, and finding unknown angles by adding and subtracting.

What you get	What's inside	Questions
Pack 1 · Understanding Angles & Degrees	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 4.MD.C.5	46
Pack 2 · Measuring & Drawing Angles	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 4.MD.C.6	35
Pack 3 · Finding Unknown Angles	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 4.MD.C.7	40
Complete Topic book	All 3 packs in one book with a contents page	121
10 Unit Tests (A–J)	40 marks each, about 40 minutes, with a mark scheme and a "what to revise" table. **Test A is free.**	18 per test

How to use this sample

1. Let your child read the recap page and try the questions on their own.
2. Mark together with the answer key. Each section shows which pack it comes from.
3. If a section felt hard, that pack is the place to start. If it all felt easy, try the free Unit Test A.

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