DraftKids
Learn through sports

PRINTABLE · GRADES 3-5 · AGES 8–11

Bank Shot Angles

Every pass, pivot and bank shot makes an angle! An angle is two rays that meet at one point, measured in degrees (°). Name them, measure them and add them up. Every team and player on this sheet is made up.

Name _____

Date _____

ANGLE TOOLKIT

Acute
less than 90°
(a sharp pass)

Right
exactly 90°
(a square corner)

Obtuse
more than 90°,
less than 180°

Straight
exactly 180°
(a straight line)

Full turn
all the way
around = 360°



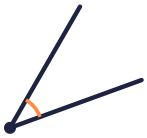
1 FULL TURN = 360°
HALF TURN = 180°

ANGLE BENCHMARKS · OPEN THE ANGLE WIDER AND THE DEGREES GO UP



ROOKIE

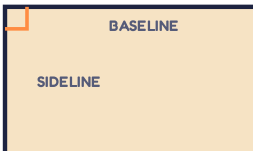
1 Jada's pass to the corner makes this angle with the baseline. Is it **acute**, **right** or **obtuse**?



Type _____

ROOKIE

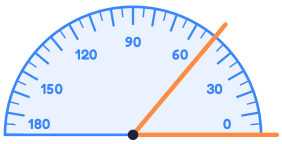
2 A court is a rectangle. What kind of angle is made where the **sideline** meets the **baseline**? How many degrees?



Type _____ _____ °

STARTER

3 Read the protractor. What does the orange angle measure?



_____ °

STARTER

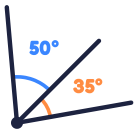
4 Kofi keeps his **pivot foot** down and turns to face the other way, a **half turn**. How many degrees did he turn?

WORK SPACE

_____ °

PRO

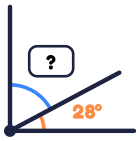
5 Two passing lanes sit side by side. Add to find the whole angle. Then name its type.



_____ ° Type _____

PRO

6 The corner of the key is a right angle. A player's path splits it in two. Find the missing angle.



_____ °

ALL-STAR

7 The baseline is a straight line, so it makes a **180°** angle. Find the missing angle.



_____ °

CHALLENGE ★

8 Challenge: Three angles meet at the center of the court and make a **full turn (360°)**. Two are 120° and 150°. Find the third and name its type.

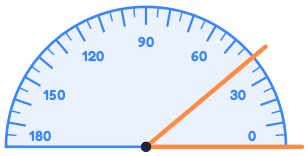
WORK SPACE

_____ ° Type _____

A Read the Protractor

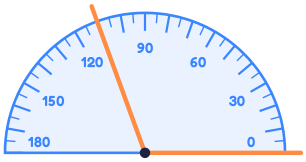
Coach Ortiz marked the launch angle of four practice passes. Write each measure, then its type (acute, right, obtuse).

1 Shot 1



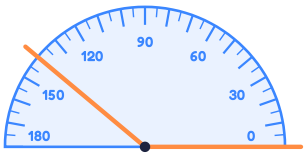
_____° _____

2 Shot 2



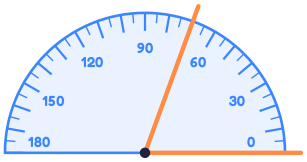
_____° _____

3 Shot 3



_____° _____

4 Shot 4



_____° _____

B Pivot Turns

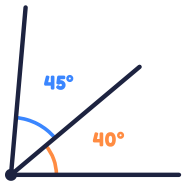
A full turn is 360°. Use fractions of a turn to fill in the degrees. (Hint: 1/4 of 360 is 90.)

TURN	1/4 turn	1/2 turn	3/4 turn	1 full turn	1/3 turn	2 full turns
DEGREES	90°			360°		

C Angle Power-Ups

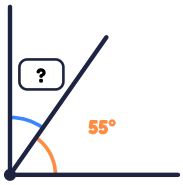
Angles add up! Use what you know about right angles (90°), straight lines (180°) and full turns (360°).

1 Mia's bounce pass leaves at a 40° angle, then Leo's pass adds another 45° on top. What is the whole angle?



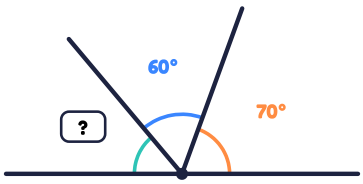
_____°

2 A right angle is split into two parts. One part is 55°. What is the other part?



_____°

3 Three angles sit along the straight baseline. Two are 70° and 60°. Find the third.



_____°

4 Challenge: Four angles go all the way around one point (360°). Two are right angles and one is 135°. Find the fourth angle and name its type.

WORK SPACE

_____° Type _____

Answer Key (for teachers & parents)

Answers for **Bank Shot Angles**, with the work shown. Print pages 1 and 2 for students and keep this page for checking. Protractor answers within 5° are fine if students line up the base ray carefully. Square court corners and the pivot-foot rule are real basketball rules; teams and players are made up.

Page 1 Problems

1. Answer: **Acute**
   The angle is 40°, less than 90°.
2. Answer: **Right, 90°**
   A rectangle has 4 square corners.
3. Answer: **50°**
   Start at 0 on the bottom ray, count up to the orange ray.
4. Answer: **180°**
   A full turn is 360°. Half of 360 is 180.
5. Answer: **85°, acute**
   35 + 50 = 85, which is less than 90.
6. Answer: **62°**
   90 − 28 = 62
7. Answer: **65°**
   180 − 115 = 65
8. Answer: **90°, right**
   120 + 150 = 270; 360 − 270 = 90

C · Angle Power-Ups

1. Answer: **85°**
   40 + 45 = 85
2. Answer: **35°**
   90 − 55 = 35
3. Answer: **50°**
   70 + 60 = 130; 180 − 130 = 50
4. Answer: **45°, acute**
   90 + 90 + 135 = 315; 360 − 315 = 45

Quick score

Page 1 problems	_____ / 8
A · Protractor (4)	_____ / 4
B · Pivot Turns (4 boxes)	_____ / 4
C · Power-Ups	_____ / 4
Total	**_____ / 20**

Skills practiced

Classifying angles · Reading a protractor · Degrees in a turn · Fractions of 360 · Adding angles · Missing angles · Right & straight angles

Teaching tip: Before measuring, have students say whether the angle looks smaller or bigger than a square corner. That one check catches the most common protractor mistake: reading the wrong scale (for example 70° instead of 110°).

A · Read the Protractor

1. Answer: **40°, acute**
2. Answer: **110°, obtuse**
3. Answer: **140°, obtuse**
4. Answer: **70°, acute**

B · Pivot Turns

1. Answer: **1/2 turn = 180°**
   360 ÷ 2
2. Answer: **3/4 turn = 270°**
   90 × 3
3. Answer: **1/3 turn = 120°**
   360 ÷ 3
4. Answer: **2 full turns = 720°**
   360 × 2

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