DraftKids
Learn through sports

PRINTABLE | GRADES 3-5 · AGES 8-11

Full Court Conversions

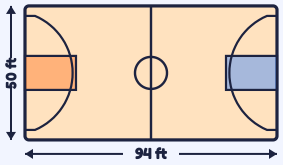
Basketball and hockey seasons are under way and football is heading into November. Every sport is full of measurements! Change big units into small units (and back) to solve each problem. Every team and player on this sheet is made up.

Name _____

Date _____

CONVERSION TOOLKIT

Length	Time	Weight	Capacity	Big to small
1 foot = 12 inches 1 yard = 3 feet	1 minute = 60 seconds 1 hour = 60 minutes	1 pound = 16 ounces	1 gallon = 4 quarts	multiply (more, smaller units)



A PRO BASKETBALL COURT

MEASURING STRIP · 1 YARD = 3 FEET = 36 INCHES



ROOKIE

1 The rim of a basketball hoop is **10 feet** above the floor. How high is the rim, **in inches**?

WORK SPACE

_____ inches

ROOKIE

2 The free-throw line is **15 feet** from the backboard. How far is the free-throw line from the backboard, **in yards**?

WORK SPACE

_____ yards

STARTER

3 A period in a hockey game lasts **20 minutes**. How long is one period, **in seconds**?

WORK SPACE

_____ seconds

STARTER

4 A football field is **100 yards** long from one goal line to the other. How long is that, **in feet**?

WORK SPACE

_____ feet

PRO

5 The Bayport Pelicans' water cooler holds **5 gallons**. How much water does the cooler hold, **in quarts**?

WORK SPACE

_____ quarts

PRO

6 Jada, a guard for the Sun Valley Hawks, is **5 feet 3 inches** tall. How tall is Jada, **in inches**?

WORK SPACE

_____ inches

ALL-STAR

7 Two lengths are shown below. Which symbol, **<**, **>** or **=**, makes the comparison true?

4 yards ☐ **13 feet**

WORK SPACE

_____

CHALLENGE ★

8 Challenge: A ball bag holds **8 basketballs**. Each ball weighs **22 ounces**. How much do the balls weigh, **in pounds**?

WORK SPACE

_____ pounds

A Stat Sheet Tables

Each table changes a bigger unit into a smaller unit. Find the rule, then fill in each empty box.

1 foot = 12 inches

FEET	INCHES
1	12
2	24
3	
5	
8	

1 minute = 60 seconds

MINUTES	SECONDS
1	60
2	120
4	
6	
10	

1 pound = 16 ounces

POUNDS	OUNCES
1	16
2	32
3	
5	
7	

B Game Clock Countdown

Change minutes to seconds, and minutes to hours and minutes. Remember: 60 seconds in a minute, 60 minutes in an hour.

1. In hockey, a minor penalty lasts **2 minutes**. How long is a minor penalty, **in seconds**?

   _____ **seconds**

2. The Frost Bay Penguins warmed up for **3 minutes 15 seconds**. How long did they warm up, **in seconds**?

   _____ **seconds**

3. A soccer game has two halves. Each half is **45 minutes**. How long are the two halves together, **in hours and minutes**?

   _____ **hour** _____ **minutes**

4. A pro football game has four quarters. Each quarter is **15 minutes** on the game clock. How long are the four quarters together, **in hours**?

   _____ **hour**

GAME CLOCK



Hockey period: 20 min
Football quarter: 15 min
Pro basketball quarter: 12 min
Soccer half: 45 min

REAL GAME LENGTHS

C Locker Room Two-Steppers

Change to the same unit first, then add or subtract.

1. The Riverside Otters' hockey stick is **5 feet** long. Tape covers **9 inches** of the blade end. How much of the stick, **in inches**, has no tape?

   WORK SPACE

   _____ **inches**

2. The Granite Falls Goats ran **30 yards** on one play and **18 feet** on the next play. How far did they run in all, **in feet**?

   WORK SPACE

   _____ **feet**

3. A bucket holds **10 hockey pucks**. Each puck weighs **6 ounces**. How much do the pucks weigh, **in pounds and ounces**?

   WORK SPACE

   _____ **lb** _____ **oz**

4. Challenge: Maya is **4 feet 8 inches** tall. A basketball rim is **10 feet** high. How much higher is the rim than Maya's height, **in inches**?

   WORK SPACE

   _____ **inches**

Answer Key (for teachers & parents)

Answers for **Full Court Conversions**, with the work shown. Print pages 1 and 2 for students and keep this page for checking. Court size, rim height, free-throw distance and game lengths are real rules; teams and players are made up.

Page 1 Problems

1. **Answer: 120 inches**
   10 × 12 = 120
2. **Answer: 5 yards**
   15 ÷ 3 = 5
3. **Answer: 1,200 seconds**
   20 × 60 = 1,200
4. **Answer: 300 feet**
   100 × 3 = 300
5. **Answer: 20 quarts**
   5 × 4 = 20
6. **Answer: 63 inches**
   5 × 12 = 60, and 60 + 3 = 63
7. **Answer: 4 yards < 13 feet**
   4 yards = 4 × 3 = 12 feet, and 12 is less than 13.
8. **Answer: 11 pounds**
   8 × 22 = 176 ounces, and 176 ÷ 16 = 11

A · Stat Sheet Tables

1. **Answer: 36, 60, 96**
   Feet × 12
2. **Answer: 240, 360, 600**
   Minutes × 60
3. **Answer: 48, 80, 112**
   Pounds × 16

Quick score

Page 1 problems	_____ / 8
A · Tables (9 boxes)	_____ / 9
B · Game Clock	_____ / 4
C · Two-Steppers	_____ / 4
Total	**_____ / 25**

Skills practiced

Customary length · Time · Weight · Capacity · Unit conversion · Mixed units · Two-step problems

Teaching tip: Ask students whether the answer should be a **bigger or smaller number** before they compute. Changing to a smaller unit (feet to inches) gives more units, so multiply. Changing to a bigger unit (feet to yards) gives fewer, so divide. For mixed units like 4 ft 8 in, convert the feet part first, then add the inches.

B · Game Clock Countdown

1. **Answer: 120 seconds**
   2 × 60 = 120
2. **Answer: 195 seconds**
   3 × 60 = 180, and 180 + 15 = 195
3. **Answer: 1 hour 30 minutes**
   45 + 45 = 90 minutes = 60 + 30
4. **Answer: 1 hour**
   4 × 15 = 60 minutes

C · Locker Room Two-Steppers

1. **Answer: 51 inches**
   5 × 12 = 60, and 60 − 9 = 51
2. **Answer: 108 feet**
   30 × 3 = 90, and 90 + 18 = 108
3. **Answer: 3 lb 12 oz**
   10 × 6 = 60 ounces = 48 + 12
4. **Answer: 64 inches**
   Rim: 120 in. Maya: 48 + 8 = 56 in. 120 − 56 = 64

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