



Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

**GAME LEVELS — LEVEL 1**

CCSS 6.SP.A.1

★☆☆ ROOKIE

**LEVEL 1 · DRILL 1**

1. Player #3 attempted 45 field goals and made 18. Calculate the FG%. Round to the nearest tenth.

DATA CHECK — FROM THE TEAM DATA TABLE

Player #	FG Att	FG Made	FT Made	Rebounds
#3	45	18	12	7

SHOW YOUR WORK

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Final answer: \_\_\_\_\_

**LEVEL 1 · DRILL 2**

2. Find the RANGE of the FG% values for all 8 players. (Hint: highest FG% minus lowest FG%.)

DATA CHECK — FROM THE TEAM DATA TABLE

FG% — all 8 players: 40.0 43.5 36.8 45.1 37.9 45.5 39.6 42.5

SHOW YOUR WORK

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Final answer: \_\_\_\_\_

**ANSWER KEY — COACH'S COPY****TEACHERS ONLY**

For the teacher: the student pages contain no answers — print pages 2 onward for the class and keep this page out of the copier.

**GUIDED PRACTICE**

- 43.5%
- Mean rebounds =  $53 \div 8 = 6.625$

**GAME LEVELS — LEVEL 1 (ROOKIE)**

- 40.0%
- Range =  $45.5\% - 36.8\% = 8.7\%$

**GAME LEVELS — LEVEL 2 (STARTER)**

- Ordered: 36.8, 37.9, 39.6, 40.0, 42.5, 43.5, 45.1, 45.5 — Median =  $(40.0 + 42.5) \div 2 = 41.25\%$ 
  - Sum of Ospreys FG%:  $40.0 + 43.5 + 36.8 + 45.1 + 37.9 + 45.5 + 39.6 + 42.5 = 330.9$ 
    - Mean =  $330.9 \div 8 = 41.4\%$
    - The Ferndale Ospreys mean (41.4%) is slightly higher than Ironwood Explorers (41.2%), so the Ferndale Ospreys shoot slightly better on average.

**GAME LEVELS — LEVEL 3 (ALL-STAR)**

- Values: 36.8, 37.9, 39.6, 40.0, 42.5, 43.5, 45.1, 45.5
- The distribution is fairly symmetric with a slight spread across the range.
- A coach could see that most players shoot between 37% and 45%, with shooting ability distributed relatively evenly across the roster.
- No extreme outliers exist.
- Player #21 has the highest FG% at 45.5%, meaning she converts a higher proportion of her shots.
- Player #11 made 32 field goals (most on team) but attempted 71 shots with a 45.1% FG%.
- While #11 scored more total baskets, #21 is more efficient.
- For 'best shooter,' FG% is typically the better measure, so #21 has the stronger argument.
- However, #11's volume scoring also has value.

**COACH'S CHALLENGE (FIND THE MISTAKE)**

Error: Jaylen divided by 2 instead of by 8 (the number of data values). The mean requires dividing by the COUNT of values.

Correction:  $330.9 \div 8 = 41.36\%$ . The team mean FG% is 41.4% (rounded to nearest tenth).

**MODIFIED VERSION (IEP-LITE)**

- 40% (actual: 43.5%, which is closer to 40%)
- $45.5\% - 36.8\% = 8.7\%$

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