

Math

Grade 5

Basketball math: box scores and shooting

Women's basketball is breaking records. Read a box score and compare shooting with decimals.



I can multiply to find points and compare decimals to the hundredths.



1



Box score

A 2-pointer is worth 2, a 3-pointer is worth 3 and a free throw is worth 1. Find each player's points.



Player	2-pointers	3-pointers	Free throws	Points
Maya	6	2	3	
Tess	4	3	2	
Ana	8	0	5	
Kira	3	4	1	

2 Shots as decimals

Write each result as a fraction or a decimal.

1. Maya made 7 of 10 free throws. As a decimal: _____
2. Tess made 45 of 100 shots in practice. As a decimal: _____
3. Ana made 3 of 4 shots. As a fraction: _____ As a decimal: _____

3 Compare the shooters

Write $>$, $<$ or $=$ in each circle.

0.7



0.65

0.45



0.5

0.80



0.8

0.38



0.4

4 Season problems

Circle the right answer.

1. The team scored 80, 76 and 91 points in three games. What is the total?

A 237

B 247

C 257
2. A player scores 18 points in each of 12 games. How many points in all?

A 206

B 216

C 226
3. Who shot better: a player who made 6 of 10 or one who made 55 of 100?

A 6 of 10

B 55 of 100

C They are the same
4. What is the whole team's total from the box score?

A 78

B 80

C 82

5

**Scoreboard warm-up**

Solve each problem.

1. $24 \times 15 =$ _____

2. $156 \div 12 =$ _____

3. $0.6 + 0.25 =$ _____

4. $3.4 - 1.75 =$ _____

5. $2.5 \times 4 =$ _____

6. $0.8 \times 10 =$ _____

7. $84 \div 4 =$ _____

6

**True or false**

Circle True or False.

1. Making 7 of 10 shots is the same as 0.7.

True

False

2. 0.5 is the same as 50 out of 100.

True

False

3. 0.09 is greater than 0.1.

True

False

4. $\frac{3}{5}$ is equal to 0.6.

True

False

5. Four 3-pointers are worth 12 points.

True

False

6. 0.45 is greater than 0.5.

True

False

7

**Points per game**

Find each player's total for 3 games. Then divide by 3 to find the points per game.

Player	Game 1	Game 2	Game 3	Total	Points per game
Maya	18	21	24		
Tess	15	19	14		

Ana	22	17	21		
Kira	12	16	11		

8 Game day problems

Read each problem and circle the right answer.

1. A ticket costs \$7.50. How much do 4 tickets cost?

A \$28.00

B \$30.00

C \$32.50

2. The team scores 96 points in 4 quarters, the same in each quarter. How many points per quarter?

A 22

B 24

C 26

3. A sports drink costs \$1.25. Kira pays with a \$5 bill. How much change does she get?

A \$3.75

B \$4.25

C \$3.25

4. Maya took 20 free throws and made 0.6 of them. How many did she make?

A 6

B 14

C 12

9 Make 23 points

A player scored 23 points with only 2-pointers and 3-pointers. Find two different ways. Show your math.

How did it go?



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Answer key

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Box score

A 2-pointer is worth 2, a 3-pointer is worth 3 and a free throw is worth 1. Find each player's points.



Player	2-pointers	3-pointers	Free throws	Points
Maya	6	2	3	21
Tess	4	3	2	19
Ana	8	0	5	21
Kira	3	4	1	19

2 Shots as decimals

Write each result as a fraction or a decimal.

1. Maya made 7 of 10 free throws. As a decimal: 0.7
2. Tess made 45 of 100 shots in practice. As a decimal: 0.45
3. Ana made 3 of 4 shots. As a fraction: $\frac{3}{4}$ As a decimal: 0.75

3 Compare the shooters

Write $>$, $<$ or $=$ in each circle.

0.7

$>$

0.65

0.45

$<$

0.5

0.80

$=$

0.8

0.38

$<$

0.4

4 Season problems

Circle the right answer.

1. The team scored 80, 76 and 91 points in three games. What is the total?

A 237 **B 247** C 257
2. A player scores 18 points in each of 12 games. How many points in all?

A 206 **B 216** C 226
3. Who shot better: a player who made 6 of 10 or one who made 55 of 100?

A 6 of 10 B 55 of 100 C They are the same
4. What is the whole team's total from the box score?

A 78 B 80 C 82

5



Scoreboard warm-up

Solve each problem.

1. $24 \times 15 = \underline{\quad 360 \quad}$

2. $156 \div 12 = \underline{\quad 13 \quad}$

3. $0.6 + 0.25 = \underline{\quad 0.85 \quad}$

4. $3.4 - 1.75 = \underline{\quad 1.65 \quad}$

5. $2.5 \times 4 = \underline{\quad 10 \quad}$

6. $0.8 \times 10 = \underline{\quad 8 \quad}$

7. $84 \div 4 = \underline{\quad 21 \quad}$

6



True or false

Circle True or False.

1. Making 7 of 10 shots is the same as 0.7.

True

False

2. 0.5 is the same as 50 out of 100.

True

False

3. 0.09 is greater than 0.1.

True

False

4. $\frac{3}{5}$ is equal to 0.6.

True

False

5. Four 3-pointers are worth 12 points.

True

False

6. 0.45 is greater than 0.5.

True

False

7



Points per game

Find each player's total for 3 games. Then divide by 3 to find the points per game.

Player	Game 1	Game 2	Game 3	Total	Points per game
Maya	18	21	24	63	21
Tess	15	19	14	48	16

Ana	22	17	21	60	20
Kira	12	16	11	39	13

8 Game day problems

Read each problem and circle the right answer.

1. A ticket costs \$7.50. How much do 4 tickets cost?

A \$28.00

B \$30.00

C \$32.50

2. The team scores 96 points in 4 quarters, the same in each quarter. How many points per quarter?

A 22

B 24

C 26

3. A sports drink costs \$1.25. Kira pays with a \$5 bill. How much change does she get?

A \$3.75

B \$4.25

C \$3.25

4. Maya took 20 free throws and made 0.6 of them. How many did she make?

A 6

B 14

C 12

9 Make 23 points

A player scored 23 points with only 2-pointers and 3-pointers. Find two different ways. Show your math.

Examples: 5 three-pointers + 4 two-pointers = $15 + 8 = 23$. 3 three-pointers + 7 two-pointers = $9 + 14 = 23$. 1 three-pointer + 10 two-pointers = $3 + 20 = 23$.

How did it go?



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