

THE NUMBERS GAME: CENTRE MIDFIELD CHALLENGE CARDS CONVERTING UNITS OF MEASURE



Converting Units of Measure - Bronze

1

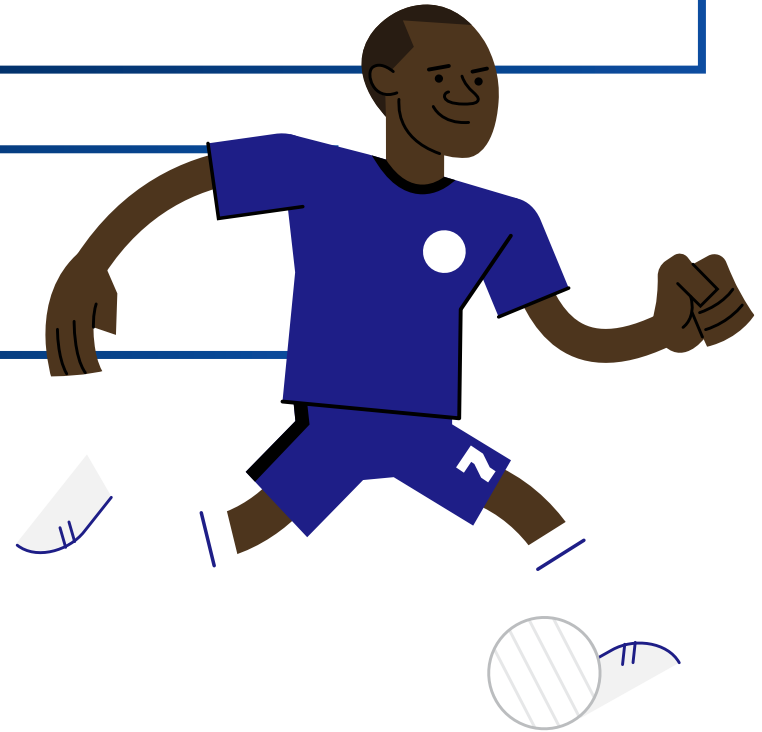
Dele Alli covered a total distance of 67 359 metres during the 2019/2020 season. Convert 67 359 metres to kilometres.

2

In the 2019/2020 season, Rodrygo played for a total of 331 minutes. Write 331 minutes in hours and minutes.

3

On average, footballers consume around 2 litres of fluid during a match. If there are 10 centilitres in 100 millilitres, convert 2 litres into centilitres.



Converting Units of Measure - Silver

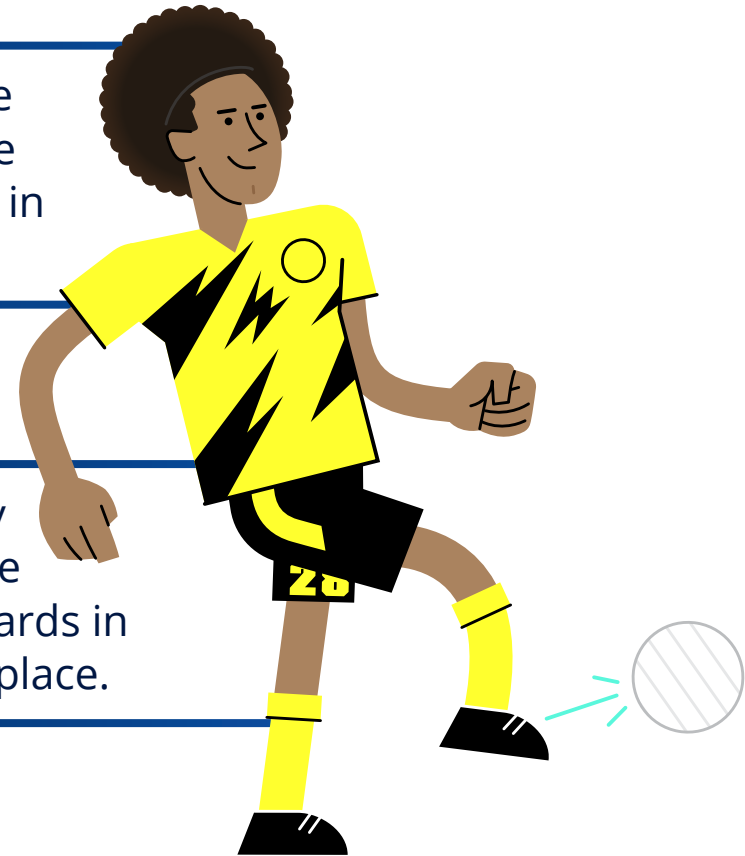


4

The team with the most attempts on goal in the 2019/2020 season was Bayern Munich, with one attempt every 4.1 minutes. What is 4.1 minutes in seconds?

5

To convert between yards and metres, multiply by 9 then divide by 10. The width of a goal in the UEFA Champions League is 8 yards. What is 8 yards in metres? Give your answer correct to 1 decimal place.



6

Romelu Lukaku is 1.9 metres tall. Convert his height into inches, giving your answer correct to the nearest inch.

Hint: 1 inch \approx 2.5cm



7

The tallest player in the 2019/2020 season is Thibaut Courtois, a goalkeeper for Real Madrid, at 1.99m. One of the shortest is Daniel Podence, an Olympiacos midfielder, who is 1.65m. How many centimetres is Thibaut Courtois taller than Daniel Podence?

Converting Units of Measure - Gold

8

During the 2019/2020 UEFA Champions League tournament phase, De Bruyne covered a total of 70 903 metres and played for a total of 574 minutes. Calculate his average speed in metres per minute, giving your answer correct to 1 decimal place. Now convert your answer to metres per second.



9

The oldest player in the 2019/2020 season is Gianluigi Buffon, a goalkeeper at Juventus. He is 190cm tall. If a football pitch is 105m long, how many Gianluigi Buffons would you need to reach from one end to the other?

10

The area of a standard football pitch in the UEFA Champions League is 7140m^2 . What is 7140m^2 in km^2 ?

11

When looked at from the top down, the area of a UEFA Champions League football is 380cm^2 . If the area of the pitch is 7140m^2 , how many footballs would you need to cover the entire pitch? Assume there are no gaps between the footballs and give your answer to the nearest football.



Converting Units of Measure - Answers

1. $67\,359 \div 1000 = 67.359\text{km}$

2. **5 hours and 31 minutes**

3. **2 litres = 2000ml**

$2000 \div 100 = 20$

$10 \times 20 = 200\text{cl}$

4. $4.1 \times 60 = 246$ seconds

5. $8 \times 9 = 72$

$72 \div 10 = 7.2\text{m}$

6. **1.9m = 190cm**

$190 \div 2.5 = 76$ inches

Converting Units of Measure - Answers

7. $1.99 \times 100 = 199\text{cm}$

$1.65 \times 100 = 165\text{cm}$

$199 - 165 = 34\text{cm}$

8. $70\,903 \div 574 = 123.5243\dots$

123.5 metres per minute

$123.5 \div 60 = 2.1$ metres per second

9. $105 \times 100 = 10\,500\text{cm}$

$10\,500 \div 190 = 55.3$ (1d.p.)

You would need 56 Gianluigi Buffons to reach from one end of the pitch to the other.

10. $1000^2 = 1\,000\,000$

$7140 \div 1\,000\,000 = 0.00714\text{km}^2$

Converting Units of Measure - Answers

11. $7140 \times 100 \times 100 = 71\,400\,000\text{cm}^2$

$71\,400\,000 \div 380 = 187\,894.73\dots$

187 895 footballs