Homework/Extension Step 3: Metric Units

National Curriculum Objectives:

Mathematics Year 5: (5M5) Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; gram and kilogram; litre and millilitre)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Identify the digit cards to make the number sentence correct by converting metric measures. Multiples of 10.

Expected Identify the digit cards to make the number sentence correct by converting metric measures. Any numbers, including some use of zero as a place holder and some fractions.

Greater Depth Identify the digit cards to balance each equation by converting non-direct metric measures. Involves multi-step conversion calculations involving any numbers, including the use of zero as a place holder and fractions.

Questions 2, 5 and 8 (Varied Fluency)

Developing Match the pairs and find the odd one out by converting metric measures. Multiples of 10.

Expected Match the pairs and find the odd one out by converting metric measures using any numbers, including some use of zero as a place holder and some fractions.

Greater Depth Match the equivalent values by converting non-direct metric measures. Involves multi-step conversion calculations involving any numbers, including the use of zero as a place holder and fractions.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Determine three measurements to fit the criteria by converting metric measures. Multiples of 10.

Expected Determine four measurements to fit the criteria by converting metric measures using any numbers, including some use of zero as a place holder and some fractions.

Greater Depth Determine four measurements to fit the criteria to fit the criteria by converting non-direct metric measures. Involves multi-step conversion calculations involving any numbers, including the use of zero as a place holder and fractions.

More Year 5 Converting Units resources.

Did you like this resource? Don't forget to review it on our website.



classroomsecrets.co.uk

Metric Units

1. Use the digit cards below to make the number sentences correct. You may use each digit card more than once.



9

6

8

1

0

400cm = m

cm = 9m

600mm = cm

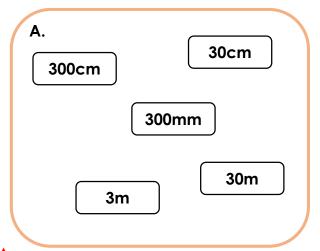
8km = ____ m

14m = cm

4,000m = ____ km



2. Match the pairs and find the odd one out.



900cm 90mm 90mm 9mm 9cm

図

3. Farmer Tom wants to build a wall that is 3m wide using exactly three bricks. The length of the bricks are shown below.

1m

90cm

C 400mm D 2m

F

500cm

G

70cm

Н

300mm

200m

Which three bricks does he choose?



RPS HW/Ext

HW/Ext

HW/Ext

Metric Units

4. Use the digit cards below to make the number sentences correct. You may use each digit card more than once.





1

5

6

2

350m = ____ cm

$$2\frac{1}{2}$$
 km = ____ m

____ mm =
$$\frac{1}{2}$$
 m

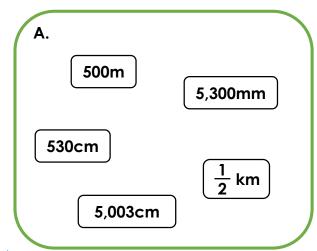
650mm = cm

$$6\frac{1}{4} \text{ m} = ___ \text{cm}$$



VF HW/Ext

5. Match the pairs and find the odd one out.



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HW/Ext

6. Abbey wants to create a 5 metre long wall on one side of her flower bed using exactly four bricks. The length of the bricks are shown below. Which four bricks could she choose?

Α

90cm

В

С

450cm

D

3.7m

Ε

2,500mm

F

1.1m

500mm

G

390cm

Н

 $\frac{1}{4}$ km

I

0.2m

J

4.8m

Find four different combinations using fewer bricks.



RPS HW/Ext

Metric Units

7. Use the digits below to balance each equation. You may use each digit card more than once.



$$9m = 1,500mm + ____cm = 1\frac{3}{4}m + ___cm$$



HW/Ext

8. Match the equivalent values and find the odd one out.

66,800mm

66.08m

68.600mm

9.702m

68.6m

6,680cm

7.9m

66,080mm

7,900mm

97,200mm

970,200cm



9. Willow wants to create a 250cm tall mosaic wall using exactly four tiles. The heights of the tiles are shown below. What four tiles could she choose?

1.3m +0.3m

В

400mm

C

0.7m

30mm + 4cm

Е

560mm

3cm + 10mm G

0.3m

Н

m

90cm + 60mm

500mm

Find four different combinations using fewer or more than four tiles.



HW/Ext

Homework/Extension Metric Units

Developing

1. 4m, 900cm, 60cm

8,000m, 1,400cm, 4km

2. A: 3m = 300cm; 30cm = 300mm. The odd one out is 30m.

B: 9m = 900cm; 9cm = 90mm. The odd one out is 9mm.

3.D + G + H

Expected

4. 35,000cm, 2,500m, 500mm

65cm, 625 cm, 1/2 km

5. A: 500m = $\frac{1}{2}$ km; 5,300mm = 530cm. The odd one out is 5,003cm.

B 250m = $\frac{1}{4}$ km; 750m = 75,000cm. The odd one out is 750mm.

6. A + B + E + F. Other combinations include: A + G; C + F; D + A + I; I + J

Greater Depth

7. 750cm, 175cm

150,000cm, 864cm

8. 66,800mm = 6,680cm; 66.08m = 66,080mm; 7,900mm = 7.9m; 9,702m = 970,200cm;

68,600mm = 68.6m. The odd one out is 97,200mm

9. A + E + F + G. Other combinations include: H + J; A + B + J; A + C + H; C + F + G + I + J