Varied Fluency
Step 5: Imperial Measures

National Curriculum Objectives:

Mathematics Year 6: (6M5) Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places

Mathematics Year 6: (6M9) Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate

Differentiation:

Developing Questions to support comparing and converting imperial measures. Converting using whole numbers, doubling or halving.

Expected Questions to support comparing and converting imperial measures. Converting numbers with up to 2 decimal places and using direct fractions of the conversions, e.g. 1/8 when converting ounces to pounds.

Greater Depth Questions to support comparing and converting imperial measures. Converting numbers up to 2 decimal places, percentages and using equivalent fractions of the conversions, e.g. 2/16 when converting ounces to pounds.

More **Year 5 and 6 Converting Units** resources.

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

Imperial Measures

1a. Jacob and Zac are measuring the weight of their pencil cases.

Jacob's pencil case weighs 28g.

Zac's pencil case weighs 2 ounces.

Whose pencil case is the heaviest?

D ⭐   6 VF

1b. Hafsa and Sophia are measuring the weight of their lunch boxes.

Hafsa's lunch box weighs 16 ounces.

Sophia's lunch box weighs 2 pounds.

Whose lunch box is the heaviest?

D ⭐   6 VF

2a. Are the following statements true or false?

A.   2 stones   =   28 pounds

B.   5cm   =   5 inches

C.   24 inches   =   3 feet

D ⭐   6 VF

2b. Are the following statements true or false?

A.   16 pints   =   1 gallon

B.   36 inches   =   3 feet

C.   2 inches   ≈   5 cm

D ⭐   6 VF

3a. Match the measurements to their conversions.

32 ounces   2 stones   2 gallons

16 pints   2 pounds   28 pounds

D ⭐   6 VF

3b. Match the measurements to their conversions.

24''   56g   5cm

2"   2 feet   2 ounces

D ⭐   6 VF

4a. Fill in the missing measurements.

| gallon | = | 8 pints |

2 feet = | inches |

| pounds | = 2 stones

D ⭐   6 VF

4b. Fill in the missing measurements.

| g | ≈ | 1 ounce |

2 gallons = | pints |

| inches | = 1 foot

D ⭐   6 VF

Imperial Measures

5a. Isaac fills his car with 64 pints of petrol.

Jaxon fills his car with 10 gallons of petrol.

Who used the largest amount of petrol?

E   6   VF

5b. Millie and Iqra are comparing the weights of their dogs.

Millie's dog weighs 20 pounds.

Iqra's dog weighs 80 ounces.

Who has the heaviest dog?

E   6   VF

6a. Are the following statements true or false?

A.   3 stones   =   30 pounds

B.   4 ounces   =   1 pound

C.   1 pint   =   0.125 gallons

E   6   VF

6b. Are the following statements true or false?

A.   25 cm $\approx$ 100 inches

B.   11 feet   =   132 inches

C.   5.6 litres $\approx$ 0.1 pint

E   6   VF

7a. Match the measurements to their conversions.

10cm   100''   1.25cm

0.5''   4''   250cm

E   6   VF

7b. Match the measurements to their conversions.

4 ounces   3''   3 gallons

0.25 feet   24 pints   0.25 pounds

E   6   VF

8a. Fill in the missing measurements.

| pounds | = 48 ounces |

0.25 pounds = | ounces |

| pints | = 15 gallons

E   6   VF

8b. Fill in the missing measurements.

| inches | = 3 feet

40 pints = | gallons |

| pounds | = 320 ounces

E   6   VF

Imperial Measures

9a. Jack is 130cm tall.

Max is 5 feet tall.

Who is the tallest?

6   VF

9b. Ivy's pet weighs 14 pounds.

Isla's pet weighs 2,800g.

Whose pet is the heaviest?

6   VF

10a. Are the following statements true or false?

A.   1 pint $= \frac{1}{8}$ gallon

B.   25 % of 1 pound   = 5 ounces

C. $\frac{1}{2}$ stone   = 8 pounds

6   VF

10b. Are the following statements true or false?

A. $\frac{1}{2}$ pint $\approx$ 0.28 litres

B. $\frac{1}{12}$ foot   = 2 inches

C.   10% of 1 ounce $\approx$ 0.28g

6   VF

11a. Match the measurements to their conversions.

10% of 1 pound   1.12 L $\frac{1}{14}$ stone

1 pound   2 pints   1.6 ounces

6   VF

11b. Match the measurements to their conversions.

25% of 1 foot   0.25 pounds $\frac{1}{10}$ ounce

4 ounces   2.8g   3 inches

6   VF

12a. Fill in the missing measurements.

[   ] pints   =   1.5 gallons

20% of 1 pound   =   [   ] ounces

[   ] ounces $\approx$ 84g

6   VF

12b. Fill in the missing measurements.

[   ] pounds   =   5.5 stones

2.5 inches   =   [   ] cm

[   ] pounds   =   1.6 ounces

6   VF

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Varied Fluency – Imperial Measures – Year 6 Greater Depth

Note: Some answers will be approximations.

Developing

1a. Zac's

2a. A. True B. False C. False

3a. 32 ounces = 2 pounds, 2 stones = 28 pounds, 2 gallons = 16 pints

4a. 1 gallon = 8 pints, 2 feet = 24 inches, 28 pounds = 2 stones

Expected

5a. Jaxon

6a. A. False B. False C. True

7a. 10cm = 4'', 100'' = 250cm, 1.25cm = 0.5''

8a. 3 pounds = 48 ounces, 0.25 pounds = 4 ounces, 120 pints = 15 gallons.

Greater Depth

9a. Max

10a. A. True B. False C. False

11a. 10% of 1 pound = 1.6 ounces, 1.12 L = 2 pints, $\frac{1}{14}$ stone = 1 pound

12a. 12 pints = 1.5 gallons, 20% of 1 pound = 3.2 ounces, 3 ounces ≈ 84g

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Note: Some answers will be approximations.

Developing

1b. Sophia's

2b. A. False B. True C. True

3b. 24'' = 2 feet, 56g = 2 ounces, 5cm = 2''

4b. 28g ≈ 1 ounce, 2 gallons = 16 pints, 12'' = 1 foot

Expected

5b. Millie

6b. A. False B. True C. False

7b. 4 ounces = 0.25 pounds, 3'' = 0.25 feet, 3 gallons = 24 pints

8b. 36 inches = 3 feet, 40 pints = 5 gallons, 320 ounces = 20 pounds.

Greater Depth

9a. Ivy

10a. A. True B. False C. False

11b. 25% of 1 foot = 3 inches, 0.25 pounds = 4 ounces, $\frac{1}{10}$ ounce = 2.8g,

12b. 77 pounds = 5.5 stones, 2.5 inches = 6.25cm, 0.1 pounds = 1.6 ounces