Varied Fluency
Step 9: Wholes and Decimals

National Curriculum Objectives:

Mathematics Year 5: (5F10) Solve problems involving number up to three decimal places
Mathematics Year 5: (5M9a) Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling

Differentiation:

Developing Questions to support adding and subtracting decimals and whole numbers. Including tens, ones and tenths; single exchanges and pictorial support.
Expected Questions to support adding and subtracting decimals and whole numbers. Including hundreds, tens, ones, tenths and hundredths; up to two exchanges and some pictorial support.
Greater Depth Questions to support adding and subtracting up to three decimals and whole numbers. Including hundreds, tens, ones, tenths and hundredths; multiple exchanges, no pictorial support and zero used as a place holder.

More Year 5 Decimals resources.

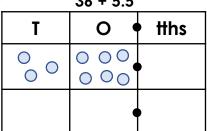Did you like this resource? Don't forget to review it on our website.

Wholes and Decimals

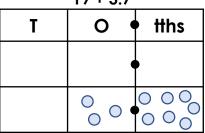**1a.** Fill in the missing counters to make the calculation correct and find the answer.

36 + 5.5

T	O	tths

VF

1b. Fill in the missing counters to make the calculation correct and find the answer.

19 + 3.7

T	O	tths

VF

2a. Use the place value chart to help. True or false?

62 – 1.7 = 60.3

T	O	tths

VF

2b. Use the place value chart to help. True or false?

83 – 2.8 = 80.4

T	O	tths

VF

3a. Two butterflies have different wingspans. What is the total span of their wings?

63mm   41.9mm

(not to scale)

VF

3b. How much would it cost to buy a teddy bear and a doll?

£19   £7.40

VF

4a. What is the difference between the masses of these fruits?

82.3g   95g

VF

4b. What is the difference between the heights of these flowers?

59cm   48.6cm

(not to scale)

VF

5a. Write the correct symbol to complete the calculation.

34 – 2.4 ☐ 21 + 9.4

VF

5b. Write the correct symbol to complete the calculation.

65 + 8.7 ☐ 76 – 2.5

VF

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Varied Fluency – Wholes and Decimals – Year 5 Developing

Wholes and Decimals

6a. Fill in the missing counters to make the calculation correct and find the answer.
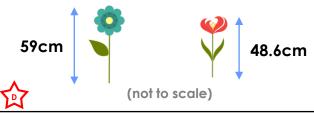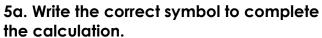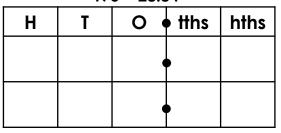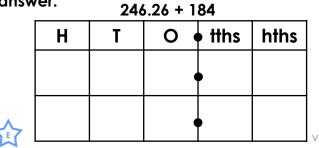
175 + 28.84

H	T	O	tths	hths

VF

6b. Fill in the missing counters to make the calculation correct and find the answer.

246.26 + 184

H	T	O	tths	hths

VF

7a. Use the place value chart to help. True or false?

37 − 3.13 = 34.87

H	T	O	tths	hths

VF

7b. Use the place value chart to help. True or false?

151 − 6.6 = 144.4

H	T	O	tths	hths

VF

8a. What is the total height of the aliens?

93cm

168.02cm

(not to scale)

VF

8b. What is the total mass of the boxes?

361g   589.15g

VF

9a. What is the difference between the price of these items?

£112   £7.40

VF

9b. What is the difference between the masses of these jars?

457g   309.4g

VF

10a. Write the correct symbol to complete the calculation.

415 − 8.3 ☐ 174 + 248.4

VF

10b. Write the correct symbol to complete the calculation.

56.36 + 85 ☐ 141 − 1.5

VF

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Varied Fluency – Wholes and Decimals – Year 5 Expected

Wholes and Decimals

Wholes and Decimals

11a. Solve

$$496 + 138.64$$

VF

11b. Solve

$$373 + 78.03$$

VF

12a. True or false?

$$802 - 673.35 = 128.65$$

VF

12b. True or false?

$$680 - 2.88 = 677.12$$

VF

13a. What is the total mass of these cupcakes?

164g   197.62g   153.7g

VF

13b. What is the total height of these flowers?

251cm   98.13cm   173.3cm

(not to scale)

VF

14a. These children ran a race. What is the difference between the second and third place?

83.62s   48.35s   120s

VF

14b. What is the difference between the heaviest and next heaviest fruit?

835g   184.61g   372.52g

VF

15a. Write the correct symbol to complete the calculation.

638 + 84.14 + 15 ☐ 740 − 2.09

VF

15b. Write the correct symbol to complete the calculation.

304 − 39.41 ☐ 2.18 + 194 + 39.6

VF

Developing
1a. **5 ones and 5 tenths; 41.5**
2a. **True**
3a. **104.9mm**
4a. **12.7g**
5a. **>**

Expected
6a. **203.84**
7a. **False. 37 – 3.13 = 33.87**
8a. **261.02cm**
9a. **£104.60**
10a. **<**

Greater Depth
11a. **634.64**
12a. **True**
13a. **515.32g**
14a. **36.38s**
15a. **<**

Developing
1b. **1 ten and 9 ones; 22.7**
2b. **False. 83 – 2.8 = 80.2**
3b. **£26.40**
4b. **10.4cm**
5b. **>**

Expected
6b. **430.26**
7b. **True**
8b. **950.15g**
9b. **147.6g**
10b. **>**

Greater Depth
11b. **451.03**
12b. **True**
13b. **522.43cm**
14b. **462.48g**
15b. **>**