

## UNIT 4 *Arithmetic: Addition and Subtraction of Decimals*

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## Overhead Slides

### **Overhead Slides**

- 4.1 Addition and Subtraction
- 4.2 Addition and Subtraction of Decimals
- 4.3 Strategies for Adding Columns of Numbers
- 4.4 Brackets
- 4.5 Use of Brackets in Money Calculations

**OS 4.1***Addition and Subtraction*

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Complete the following calculations, working in columns:

$$\begin{array}{r} 1. \quad 423 \\ + 236 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 547 \\ + 279 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 1475 \\ + 947 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 2652 \\ + 9478 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 549 \\ - 213 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 654 \\ - 267 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 2437 \\ - 562 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 4326 \\ - 2586 \\ \hline \\ \hline \end{array}$$

**OS 4.2***Addition and Subtraction of Decimals*

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Complete the following calculations, working in columns:

$$\begin{array}{r} 1. \quad 24.2 \\ + 43.7 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 49.7 \\ + 34.5 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 48.57 \\ + 51.22 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 37.66 \\ + 29.08 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 45.8 \\ - 14.4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 59.5 \\ - 36.8 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 78.4 \\ - 29.6 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 28.23 \\ - 15.49 \\ \hline \\ \hline \end{array}$$

**OS 4.3***Strategies for Adding Columns of Numbers*

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Do the following sums, using appropriate strategies:

A.

$$\begin{array}{r} 8 \\ 23 \\ 12 \\ 7 \\ \hline \\ \hline \end{array}$$

B.

$$\begin{array}{r} 19 \\ 34 \\ 21 \\ 17 \\ \hline \\ \hline \end{array}$$

C.

$$\begin{array}{r} 11 \\ 25 \\ 35 \\ 20 \\ \hline \\ \hline \end{array}$$

D.

$$\begin{array}{r} 10 \\ 15 \\ 7 \\ 25 \\ 16 \\ \hline \\ \hline \end{array}$$

E.

$$\begin{array}{r} 12 \\ 9 \\ 13 \\ 8 \\ 6 \\ \hline \\ \hline \end{array}$$

F.

$$\begin{array}{r} 23 \\ 9 \\ 17 \\ 13 \\ 14 \\ \hline \\ \hline \end{array}$$

**OS 4.4***Brackets*

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- A. Evaluate each of these expressions – take care with the brackets:

$$17 - (6 + 4) = \square$$

$$(17 - 6) + 4 = \square$$

$$12 - (5 - 3) = \square$$

$$(12 - 5) - 3 = \square$$

- B. Insert brackets where necessary to make each of these calculations correct:

$$10 - 4 - 3 - 2 = 1$$

$$10 - 4 - 3 - 2 = 5$$

$$10 - 4 - 3 - 2 = 7$$

$$10 - 4 - 3 - 2 = 11$$

## OS 4.5

*Use of Brackets in Money Calculations*

You buy the following with a £5 note:

*Book* : £1.25

*Drink* : 50p

*Cola* : £1.10

How much change do you get?

**Method**      Add up the bill:

$$\begin{array}{r}
 \text{£1.25} \\
 + \text{£0.50} \\
 + \text{£1.10} \\
 \hline
 \text{£} \\
 \hline
 \end{array}$$

Take this from £5.00:

$$\begin{array}{r}
 \text{£5 00} \\
 - \text{£} \\
 \hline
 \text{Change} = \text{£} \\
 \hline
 \end{array}$$

**Brackets:**

$$\begin{aligned}
 \text{Change} &= \text{£ } 5.00 - \text{£ } (1.25 + 0.50 + 1.10) \\
 &= \text{£ } 5.00 - \text{£} \\
 &=
 \end{aligned}$$