

Adding Decimals

Video 90 on Corbettmaths

Examples

Workout



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Question 1: Work out the answers to the following additions

- (a) $4.5 + 2.3$ (b) $8.4 + 1.7$ (c) $0.7 + 0.5$ (d) $2.8 + 10.3$
(e) $13.4 + 28.9$ (f) $206.2 + 72.8$ (g) $6.4 + 15.9$ (h) $0.5 + 0.8 + 0.1$
(i) $9.7 + 1.4 + 1.3$ (j) $16.8 + 3.9 + 102.2 + 87.4$

Question 2: Work out these additions

- (a) $0.14 + 0.53$ (b) $0.35 + 0.65$ (c) $2.47 + 3.34$ (d) $4.93 + 2.25$
(e) $4.77 + 1.84$ (f) $10.38 + 6.81$ (g) $7.83 + 12.49$ (h) $0.56 + 107.08$
(i) $9.85 + 2.63 + 0.89$ (j) $0.08 + 0.12 + 0.87 + 1.93 + 2.06$

Question 3: Complete these additions

- (a) $6.5 + 1.73$ (b) $0.56 + 1.6$ (c) $2.45 + 7.8$ (d) $8.67 + 3.9$
(e) $9.2 + 4.87$ (f) $1.08 + 2.6$ (g) $20.6 + 15.84$ (h) $41.8 + 5.35$
(i) $7.4 + 2.329$ (j) $0.018 + 2.39$ (k) $9.224 + 8.89$ (l) $0.293 + 9.815$
(i) $4.52 + 0.3 + 0.79 + 1.4$ (j) $0.94 + 4.8 + 12.09 + 5.63$

Apply

Question 1: Richard buys a notebook that costs £6.78 and a pen that costs £4.19.
Work out the total cost.

Question 2: Holly is saving money.
In January, she saves £15.15
In February, she saves £8.82
In March, Holly saves £13.37
Work out how much she has saved in total.



Adding Decimals

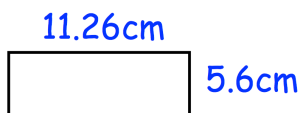
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Question 3: David drives 4.8 miles to Bristol and a further 6.7 miles to Bath.
Work out how far he drives in total.

Question 4: Mr Jenkins has three pieces of rope.
The pieces of rope are 2.35m, 1.8m and 3.06m long.
Work out the total length of the pieces of rope.



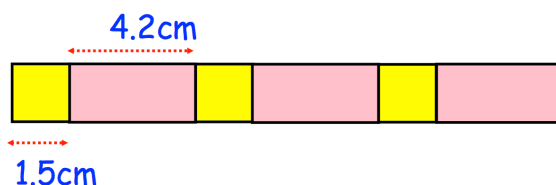
Question 5: Shown is a rectangle.
Calculate the perimeter.



Question 6: Work out the missing number.

$$\boxed{} - 5.28 = 10.9$$

Question 7: Shown is a shape made from three identical squares and three identical rectangles.
Calculate the perimeter of the shape.



Question 8: The first four terms of a number sequence are
2.52, 2.71, 2.9, 3.09, ..., ..., ...
Work out the next two terms.

Question 9: Grace is working out $12.4 + 3.18$
Can you spot any mistakes?

	1	2	4
+	3	1	8
	4	4	2

Question 10: Neil writes down four numbers with a sum of 50.
All the numbers have two decimal places and no two numbers are the same.
Write down four possible numbers Neil could have written down.

Answers



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Addition

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Examples



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Workout

Question 1: Work out the answers to the following additions

- (a) $51 + 37$ (b) $27 + 21$ (c) $37 + 44$ (d) $84 + 19$
(e) $48 + 48$ (f) $39 + 21 + 43$ (g) $75 + 56$ (h) $93 + 84$

Question 2: Work out these additions

- (a) $123 + 564$ (b) $557 + 61$ (c) $839 + 152$ (d) $357 + 368$
(e) $940 + 346$ (f) $382 + 121 + 85$ (g) $948 + 253$ (h) $777 + 444$

Question 3: Complete these additions

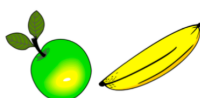
- (a) $4854 + 1162$ (b) $4611 + 3270$ (c) $5792 + 4437$ (d) $4780 + 1590$
(e) $939 + 1103$ (f) $2385 + 5584$ (g) $8888 + 4424$ (h) $5118 + 3054 + 1112$

Question 4: Work out

- (a) $48832 + 14503$ (b) $39104 + 22934$ (c) $8383 + 11385 + 7673 + 711$

Apply

Question 1: Daniel buys an apple for 39p and a banana for 27p. How much does he pay in total?

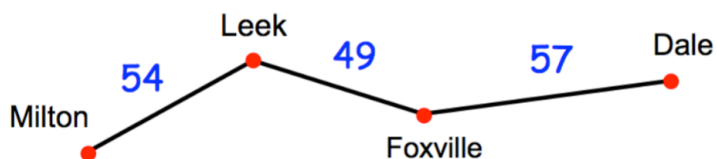


Question 2: James has 86 marbles and Hannah has 95 marbles. How many marbles do they have altogether?

Addition

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Question 3: The distances, in kilometres, between four towns are shown on the map.



- (a) Work out the distance between Leek and Dale.
(b) Work out the distance between Milton and Dale.

Question 4: In year 7 there are 238 students.
In year 8 there are 225 students.
In year 9 there are 233 students.

How many students are there in total in years 7, 8 and 9?

Question 5: Copy these additions into your book and fill in the missing numbers.

(a)

$$\begin{array}{r} 54 \\ + 3\Box \\ \hline \Box 9 \end{array}$$

(b)

$$\begin{array}{r} 4\Box \\ + \Box 4 \\ \hline 72 \end{array}$$

(c)

$$\begin{array}{r} 5\Box\Box \\ + \Box 71 \\ \hline 934 \end{array}$$

Question 6: Can you spot any mistakes in the questions below?

$$\begin{array}{r} 859 \\ + 176 \\ \hline 1025 \end{array}$$

$$\begin{array}{r} 282 \\ 399 \\ + 675 \\ \hline 1256 \end{array}$$

Answers



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Negatives: Addition and Subtraction

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Examples



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Workout

Question 1: Work out the answers to each of the following

- | | | | |
|--------------|--------------|----------------|----------------|
| (a) $2 - 3$ | (b) $3 - 5$ | (c) $4 - 9$ | (d) $1 - 5$ |
| (e) $5 - 7$ | (f) $6 - 7$ | (g) $8 - 11$ | (h) $2 - 10$ |
| (i) $-2 + 4$ | (j) $-3 + 9$ | (k) $-7 + 10$ | (l) $-6 + 1$ |
| (m) $-5 + 8$ | (n) $-9 + 7$ | (o) $-20 + 11$ | (p) $-12 + 18$ |
| (q) $-3 - 2$ | (r) $-4 - 1$ | (s) $-6 - 3$ | (t) $-1 - 5$ |
| (u) $-7 - 3$ | (v) $-8 - 5$ | (w) $-9 - 12$ | (x) $-15 - 13$ |

Question 2: Work out the answers to each of the following

- | | | | |
|--------------------|-------------------|-------------------|---------------------|
| (a) $3 + 5 - 4$ | (b) $2 + 1 - 6$ | (c) $5 - 8 - 1$ | (d) $7 - 10 + 1$ |
| (e) $8 + 3 - 15$ | (f) $5 - 6 - 4$ | (g) $1 - 7 - 4$ | (h) $-3 + 6 + 1$ |
| (i) $-8 + 2 + 3$ | (j) $-10 + 4 - 6$ | (k) $-9 - 3 - 1$ | (l) $-2 - 7 + 4$ |
| (m) $-20 + 11 - 6$ | (n) $-5 + 14 - 8$ | (o) $-13 - 4 + 6$ | (p) $-30 - 80 + 40$ |

Question 3: Work out the answers to each of the following

- | | | | |
|---------------|---------------|-----------------|---------------|
| (a) $4 + -1$ | (b) $6 + -2$ | (c) $8 + -7$ | (d) $3 + -5$ |
| (e) $1 + -7$ | (f) $3 + -10$ | (g) $-2 + -1$ | (h) $-1 + -6$ |
| (i) $-5 + -5$ | (j) $-4 + -5$ | (k) $-10 + -11$ | (l) $-8 + -4$ |

Negatives: Addition and Subtraction

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Question 4: Work out the answers to each of the following

- | | | | |
|---------------|---------------|-----------------|----------------|
| (a) $6 - +1$ | (b) $3 - +2$ | (c) $8 - +4$ | (d) $2 - +5$ |
| (e) $1 - +9$ | (f) $-2 - +5$ | (g) $-10 - +3$ | (h) $-1 - +1$ |
| (i) $5 - +11$ | (j) $-2 - +6$ | (k) $-20 - +13$ | (l) $15 - +25$ |

Question 5: Work out each of the following

- | | | | |
|---------------|---------------|----------------|-----------------|
| (a) $1 - -2$ | (b) $3 - -1$ | (c) $3 - -5$ | (d) $6 - -4$ |
| (e) $9 - -2$ | (f) $-1 - -4$ | (g) $-2 - -1$ | (h) $-8 - -3$ |
| (i) $-5 - -9$ | (j) $-6 - -7$ | (k) $-15 - -8$ | (l) $-12 - -30$ |

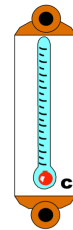
Question 6: Work out each of the following

- | | | | |
|-----------------|----------------|-----------------|-----------------|
| (a) $11 - 15$ | (b) $-9 + 5$ | (c) $-4 - 8$ | (d) $-4 + -3$ |
| (e) $-9 - +4$ | (f) $10 - -3$ | (g) $7 - 20$ | (h) $-2 - -5$ |
| (i) $12 + -7$ | (j) $-4 - -1$ | (k) $-9 + -8$ | (l) $8 - 13$ |
| (m) $6 - -11$ | (n) $-7 - +7$ | (o) $-6 - 5$ | (p) $-20 + -3$ |
| (q) $-9 - -15$ | (r) $-8 + 25$ | (s) $31 - 50$ | (t) $-30 - -16$ |
| (u) $-41 - 14$ | (v) $-5 - +23$ | (w) $-16 + -15$ | (x) $40 - -40$ |
| (y) $-18 - -27$ | (z) $-52 + 90$ | | |

Apply

Question 1: At midnight, the temperature in Belfast was -2°C
At 9am, the temperature was 5°C

By how many degrees did the temperature rise?



Question 2: Mr Jones has $-\text{£}50$ in his bank account.
If he pay $\text{£}70$ into the bank, how much will he now have in his account?

Negatives: Addition and Subtraction

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Question 3: In the magic squares below, the numbers in any column, row or diagonal add up to give the same answer.
Complete each magic square.

(a)

-4	-9	-2
-8		-6

(b)

-3		-1
2		
1		

Question 4: Work out the missing numbers

(a) $\square + 3 = 1$ (b) $0 - \square = 8$ (c) $-6 + \square = -1$

(d) $\square - 5 = -13$ (e) $9 - \square = 15$ (f) $-2 - \square = 5$

Question 5: Write down five different additions that have an answer of 2.
You may only use whole numbers.

Question 6: Write down five subtractions that have an answer of 2.
You must use at least one negative number per calculation.

Question 7: Below are seven cards, each with a number written on it.

-3	-4	6	2	4	-7	1
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(a) Choose two suitable cards to make the calculation correct. $\square + \square = 2$

(b) Choose two cards that will give the smallest possible answer $\square + \square$

(c) Choose two cards that will give an answer of zero $\square + \square = 0$

(d) Choose two cards that will give the greatest possible answer $\square - \square$

Answers



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