Adding and Subtracting Decimals - Worksheet

Skill

Group A - Adding decimals

Work out:

1) $3.1 + 2.6$

2) $0.4 + 2.7$

3) $8.7 + 9.5$

4) $1.25 + 2.41$

5) $3.67 + 5.84$

6) $4.46 + 8.97$

7) $0.047 + 12.996$

8) $5.947 + 6.184$

9) $9.318 + 4.385$

10) $3.1 + 7.26$

11) $6.23 + 12.529$

12) $3.4 + 2.94 + 8.736$

Group B - Subtracting decimals

Work out:

1) $6.8 - 4.2$

2) $13.9 - 7.4$

3) $7.1 - 4.8$

4) $1.68 - 0.34$

5) $5.72 - 3.58$

6) $8.31 - 1.89$

7) $7 - 5.3$

8) $10.5 - 5.67$

9) $7.2 - 3.672$

10) $3.7 - 4.8$

11) $2.86 - 5.21$

12) $4.91 - 8.327$

Group C - Adding and subtracting decimals

Work out:

1) $4.8 + 6.1 - 5.9$

2) $3.2 + 9.7 - 8.6$

3) $12.4 + 1.8 - 9.7$

4) $6.8 - 1.2 - 3.4$

5) $7.2 - 4. - 1.7$

6) $12.3 - 5.9 - 2.8$

7) $2.71 + 3.64 - 1.48$

8) $6.34 - 1.39 - 2.84$

9) $12 + 5.7 - 7.81$

10) $5.7 + 2.89 - 3.2$

11) $4.92 - 1.4 + 2.173$

12) $7.31 - 2.146 - 3.8$

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Adding and Subtracting Decimals - Worksheet

Applied

1) **(a)** Rob buys a pair of football boots for £45.99 and a football for £15.75. How much does he spend altogether?

(b) Sheik is carrying a bag of flour of mass $1.5kg$, two tins of beans of mass $0.4kg$ each and some frozen chips of mass $1.75kg$. Find the total mass of all the items in kilograms.

2) **(a)** Tom and Alice were practising the long jump. Tom jumped a distance of $2.73m$. Alice jumped a distance of $3.16m$. How much further than Tom did Alice jump?

(b) Find the difference between 5.6 and -1.39.

3) **(a)** A plank of wood is $5m$ long. A $2.21m$ length is cut from the plank. What length of wood is left?

(b) Sarah is training for a $200m$ sprint. On Saturday she achieved a time of 25.67 seconds. On Sunday, she was 0.89 seconds quicker. What time did she achieve on Sunday?

4) **(a)** A DVD store has a special deal - "Choose three DVDs and get the cheapest one for free." Ben wants to choose three DVDs from the four choices below. What will Ben spend if he chooses the cheapest option?

TREK WARS	BEETLE MAN	TRAY STORY	CAT NINJA
£ 6.75	£ 8.65	£ 9.72	£ 6.83

(b) What change will Ben receive if he pays with a £20 note?

Adding and Subtracting Decimals - Exam Questions

1) **(a)** Work out £13.67 + £8.59.

..... **(1)**

(b) Work out 55.6 + 2.392 + 12.48.

..... **(2)**

(3 marks)

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2) Complete the calculations:

(a)

$$\begin{array}{r} 3\,.\,\square\,7 \\ +\ \square\,.\,9\,\square \\ \hline 5\,.\,8\,3 \end{array}$$

..... **(2)**

(b)

$$\begin{array}{r} \square\,.\,6\,\square \\ -\ 5\,.\,\square\,2 \\ \hline 3\,.\,8\,2 \end{array}$$

..... **(2)**

(4 marks)

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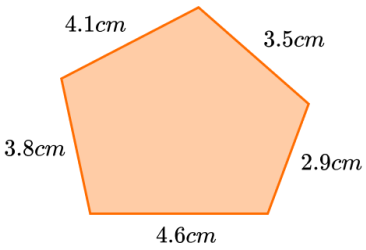
3) Find the perimeter of the irregular pentagon.



..... **(2 marks)**

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4) **(a)** Mark went to a clothes shop and bought 2 t-shirts costing £8.99 each, a hat costing £6.50 and a pair of shoes costing £22.90. He paid for the items with a £50 note. What change should he receive?

..... **(3)**

(b) Work out 44.6 − 23.39 − 8.42.

..... **(2)**

(5 marks)

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Adding and Subtracting Decimals - Answers

	Question	Answer
	Skill Questions	
Group A	Work out: **1)** $3.1 + 2.6$ **2)** $0.4 + 2.7$ **3)** $8.7 + 9.5$ **4)** $1.25 + 2.41$ **5)** $3.67 + 5.84$ **6)** $4.46 + 8.97$ **7)** $0.047 + 12.996$ **8)** $5.947 + 6.184$ **9)** $9.318 + 4.385$ **10)** $3.1 + 7.26$ **11)** $6.23 + 12.529$ **12)** $3.4 + 2.94 + 8.736$	**1)** 5.7 **2)** 3.1 **3)** 18.2 **4)** 3.66 **5)** 9.51 **6)** 13.43 **7)** 13.043 **8)** 12.131 **9)** 13.703 **10)** 10.36 **11)** 18.759 **12)** 15.076
Group B	Work out: **1)** $6.8 - 4.2$ **2)** $13.9 - 7.4$ **3)** $7.1 - 4.8$ **4)** $1.68 - 0.34$ **5)** $5.72 - 3.58$ **6)** $8.31 - 1.89$ **7)** $7 - 5.3$ **8)** $10.5 - 5.67$ **9)** $7.2 - 3.672$ **10)** $3.7 - 4.8$ **11)** $2.86 - 5.21$ **12)** $4.91 - 8.327$	**1)** 2.6 **2)** 6.5 **3)** 2.3 **4)** 1.34 **5)** 2.14 **6)** 6.42 **7)** 1.7 **8)** 4.83 **9)** 3.528 **10)** -1.1 **11)** -2.35 **12)** -3.417

Adding and Subtracting Decimals - Answers

Group C	Work out: **1)** $4.8 + 6.1 - 5.9$ **2)** $3.2 + 9.7 - 8.6$ **3)** $12.4 + 1.8 - 9.7$ **4)** $6.8 - 1.2 - 3.4$ **5)** $7.2 - 4. - 1.7$ **6)** $12.3 - 5.9 - 2.8$ **7)** $2.71 + 3.64 - 1.48$ **8)** $6.34 - 1.39 - 2.84$ **9)** $12 + 5.7 - 7.81$ **10)** $5.7 + 2.89 - 3.2$ **11)** $4.92 - 1.4 + 2.173$ **12)** $7.31 - 2.146 - 3.8$	**1)** 5 **2)** 4.3 **3)** 4.5 **4)** 2.2 **5)** 1.2 **6)** 3.6 **7)** 4.87 **8)** 2.11 **9)** 9.89 **10)** 5.39 **11)** 5.693 **12)** 1.364

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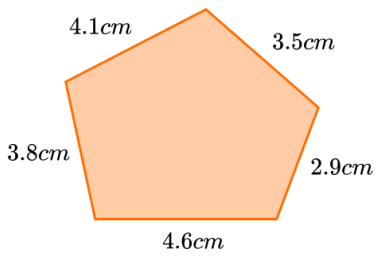
Adding and Subtracting Decimals - Answers

	Question	Answer
	Applied Questions	
1)	**(a)** Rob buys a pair of football boots for £45.99 and a football for £15.75. How much does he spend altogether?	**(a)** £61.74
	(b) Sheik is carrying a bag of flour of mass $1.5kg$, two tins of beans of mass $0.4kg$ each and some frozen chips of mass $1.75kg$. Find the total mass of all the items in kilograms.	**(b)** $4.05kg$
2)	**(a)** Tom and Alice were practising the long jump. Tom jumped a distance of $2.73m$. Alice jumped a distance of $3.16m$. How much further than Tom did Alice jump?	**(a)** $0.43m$
	(b) Find the difference between 5.6 and -1.39.	**(b)** 6.99
3)	**(a)** A plank of wood is $5m$ long. A $2.21m$ length is cut from the plank. What length of wood is left?	**(a)** $2.79m$
	(b) Sarah is training for a $200m$ sprint. On Saturday she achieved a time of 25.67seconds. On Sunday, she was 0.89 seconds quicker. What time did she achieve on Sunday?	**(b)** 24.78 seconds
4)	**(a)** A DVD store has a special deal - "Choose three DVDs and get the cheapest one for free." Ben wants to choose three DVDs from the four choices below. What will Ben spend if he chooses the cheapest option? TREK WARS £6.75 · BEETLE MAN £8.65 · TRAY STORY £9.72 · CAT NINJA £6.83	**(a)** £15.48
	(b) What change will Ben receive if he pays with a £20 note?	**(b)** £4.52

Adding and Subtracting Decimals - Mark Scheme

	Question	Answer	
	Exam Questions		
1) (a)	Work out £13. 67 + £8. 59.	**(a)** Correct answer of £22. 26.	**(1)**
(b)	Work out 55. 6 + 2. 392 + 12. 48.	**(b)** 57. 992 or 68. 08 or 14. 872 seen. Correct answer of 70. 472.	**(2)**
2)	Complete the calculations:		
(a)	3 . □ 7 + □ . 9 □ 5 . 8 3	**(a)** 8 in top box 1 in first box in second row 6 in second box in second row 3 . 8 7 + 1 . 9 6 5 . 8 3	**(2)**
(b)	□ . 6 □ - 5 . □ 2 3 . 8 2	**(b)** 9 in first box in top row 4 in second box in top row 8 in second row 9 . 6 4 - 5 . 8 2 3 . 8 2	**(2)**
3)	Find the perimeter of the irregular pentagon.  	Any correct sum of two or three or four of the sides Correct answer of 18. 9.	**(2)**

Adding and Subtracting Decimals - Mark Scheme

4) (a)	Mark went to a clothes shop and bought 2 t-shirts costing £8. 99 each, a hat costing £6. 50 and a pair of shoes costing £22. 90. He paid for the items with a £50 note. What change should he receive?	**(a)** Any correct sum of two of the items Correct sum of the £47. 38 Correct answer of £2. 62	**(3)**
(b)	Work out $44.6 - 23.39 - 8.42$.	**(b)** 21. 21 or 36. 18 or 31. 81 seen Correct answer of 12. 79	**(2)**

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