Decimals - Worksheet

Skill

Group A - Addition and subtraction of decimals

Work out:

Group B - Multiplication and division of decimals

Work out:

9)
$$0.34 \times 25.6$$

Group C - Mixed decimal arithmetic

Work out:

1)
$$3.6 + 2.7 - 1.25$$

1)
$$3.6 + 2.7 - 1.25$$
 2) $5.67 + 1.9 - 7.01$ **3)** $8.2 - 4.31 - 2.7$

4)
$$3 \times 6.4 \times 2.1$$

5)
$$7.3 \times 8 \times 4.9$$

6)
$$0.2 \times 5.4 \div 0.3$$

7)
$$7 \times 3.4 - 12.6$$

8)
$$5 \times 2.9 + 3.1$$

9)
$$4.3 \times 3.7 - 7.12$$

10)
$$7.38 \div 2 + 2.19$$

11)
$$0.513 \div 9 - 0.041$$

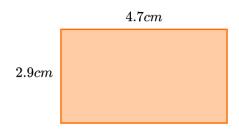
12)
$$3.62 \div 0.5 + 1.4$$



Decimals - Worksheet

Applied

The figure shows a rectangle with length 4.7cm and width 2.9cm.



- (a) Find the perimeter of the rectangle.
- **(b)** Find the area of the rectangle.
- The formula for average speed = total distance ÷ total time.

 Find the average speed of a car, in km/h, that has travelled 78. 4 kilometres in 1.4 hours.
 - **(b)** Find the distance travelled by a car, in km, that had an average speed of 48. 5 km/h for a total time of 3. 5 hours.
- The price of a tub of olives from the delicatessen is calculated by mass. If the olives cost £5. 86 per kilogram. Find the price of a 0.35 kilogram tub of olives.
 - **(b)** A tub of pasta salad had a mass of 0.2 kilograms and came to a price of £2.87. Find the cost of the pasta salad per kilogram.
- 4) (a) A shopping list consisted of the following items:

Chocolate bar £0.65

Shower gel £0.88

Milk £1. 24

Bread £1.10

Pizza £3.85

Find the total cost.

(b) Find the change for the shopping from a ten pound note.



Decimals - Exam Questions

- 1) Use $156 \times 249 = 38844$ to work out the following:
 - (a) 15.6×2.49 (1)
 - (b) 0.156×24.9 (1)
 - (c) 388.44 ÷ 2.49(1) (3 marks)
- 2) (a) If F = ma. Find F, when m = 4.8 and a = 1.75. (2)
 - (b) If $D = \frac{t}{2} g$. Find D, when t = 6.5 and g = 1.428. (4 marks)
- 3) Below is the breakfast menu for a hotel. (3 marks)

BREAKFAST	
Continental Breakfast	£4.75
Cooked Breakfast	£9.85
Vegetarian Breakfast	£6.75
Tea for one	£1.20
Coffee for one	£1.59

The Smith family ordered one cooked breakfast, one vegetarian breakfast, three continental breakfasts, three teas and two coffees. Calculate their total bill.



Decimals - Exam Questions

4) (a) A wooden plank is 8. 75 metres long. 5 lengths of

1. 45 metres are cut from the plank. Find the
length of the remaining piece.
(b) Each wooden plank is £6. 74. Dean needs 12 of
the planks for a garden decking. He has £80.
Does Dean have enough money for the 12
wooden planks?
(6 marks)



	Question	Answer
	Skill Questions	
Group A	Work out: 1) 3.7 + 4.6 2) 0.8 + 5.7 3) 11.24 + 8.91 4) 6.7 - 4.3 5) 7.2 - 5.6 6) 8.36 - 2.84 7) 2.3 + 4.87 8) 5.21 + 2.974 9) 9.495 + 8.24 10) 3.4 - 0.57 11) 12.54 - 9.537 12) 3.67 - 5.295	1) 8.3 2) 6.5 3) 20.15 4) 2.4 5) 1.6 6) 5.52 7) 7.17 8) 8.184 9) 17.735 10) 2.83 11) 3.003 12) - 1.625
Group B	Work out: 1) 2.3 × 7 2) 4.9 × 6 3) 8 × 1.72 4) 9.2 ÷ 2 5) 1.95 ÷ 5 6) 0.342 ÷ 6 7) 3.8 × 2.9 8) 6.3 × 12.1 9) 0.34 × 25.6 10) 4.5 ÷ 0.3 11) 1.62 ÷ 0.6 12) 8.502 ÷ 0.13	1) 16. 1 2) 29. 4 3) 13. 76 4) 4. 6 5) 0. 39 6) 0. 057 7) 11. 02 8) 76. 23 9) 8. 704 10) 15 11) 2. 7 12) 65. 4



Group C	Work out:	
	1) 3.6 + 2.7 - 1.25	1) 5. 05
	2) 5.67 + 1.9 - 7.01	2) 0.56
	3) 8.2 - 4.31 - 2.7	3) 1.19
	4) 3 × 6.4 × 2.1	4) 40. 32
	5) 7.3 × 8 × 4.9	5) 286. 16
	6) 0.2 × 5.4 ÷ 0.3	6) 3. 6
	7) 7 × 3.4 - 12.6	7) 11.2
	8) 5 × 2.9 + 3.1	8) 17. 6
	9) 4.3 × 3.7 - 7.12	9) 8.79
	10) 7.38 ÷ 2 + 2.19	10) 5.88
	11) 0.513 ÷ 9 - 0.041	11) 0.016
	12) 3. 62 ÷ 0. 5 + 1. 4	12) 8. 64



	Qu	estion	An	swer
	Ар	plied Questions		
1)		The figure shows a rectangle with length 4.7cm and width 2.9cm. 4.7cm		
	(a)	Find the perimeter of the rectangle.	(a)	15. 2 <i>cm</i>
	(b)	Find the area of the rectangle.	(b)	13. 63 <i>cm</i> ²
2)	(a)	The formula for average speed = total distance ÷ total time. Find the average speed of a car, in km/h, that has travelled 78. 4 kilometres in 1. 4 hours.	(a)	56 km/h
	(b)	Find the distance travelled by a car, in km, that had an average speed of 48.5 km/h for a total time of 3.5 hours.	(b)	169.75 km
3)	(a)	The price of a tub of olives from the delicatessen is calculated by mass. If the olives cost £5.86 per kilogram. Find the price of a 0.35 kilogram tub of olives.		£2. 05 (rounded to 2 d.p.)
	(b)	A tub of pasta salad had a mass of 0.2 kilograms and came to a price of £2.87. Find the cost of the pasta salad per kilogram.	(b)	£14.35



4)	(a)	A shopping list consisted of items: Chocolate bar £0, 65	of the following Shower gel £0.88	(a)	£7.72
			Bread £1. 10		
		Find the total cost.			
(b) Find the change for the shopping from a ten pound note.		(b)	£2.28		



Decimals - Mark Scheme

		Question				Answer		
		Exam Questions						
1)			× 249 = 388 ollowing:	44 to w	ork			
	(a)	15.6 ×	2.49			(a)	Correct answer of 38.844.	(1)
	(b)	0.156 >	× 24.9			(b)	Correct answer of 3. 8844.	(1)
	(c)	388. 44	÷ 2.49			(c)	Correct answer of 156.	(1)
2)	(a)	If $F = ma$. Find F , when $m = 4.8$ and $a = 1.75$.		(a)	Method to multiply 4. 8 and 1. 75. Correct answer of 8. 4.	(2)		
	(b)	If $D = \frac{t}{2} - g$. Find D , when $t = 6.5$ and $g = 1.428$.			6. 5	(b)	6. 5 divided by 2 or 3. 25 seen. Correct answer of 1. 822.	(2)
3)		BREAKFAST Continental Breakfast £4.75 Cooked Breakfast £9.85 Vegetarian Breakfast £6.75 Tea for one £1.20 Coffee for one £1.59 The Smith family ordered one cooked breakfast, one vegetarian breakfast, three continental breakfasts, three teas and two coffees. Calculate their total bill.			ked ,		Calculating three teas (£3. 60) or two coffees (£3. 18) or three continentals (£14. 25). Method to add cost of items. Correct total of £37. 63.	(3)



Decimals - Mark Scheme

4)	(a)	A wooden plank is 8.75 metres long. 5 lengths of 1.45 metres are cut from the plank. Find the length of the remaining piece.	(a)	$5 \times 1.45 (= 7.25)$ 8.75 - "7.25" Correct answer of 1.5m.	(3)
	(b)	Each wooden plank is £6.74. Dean needs 12 of the planks for a garden decking. He has £80. Does Dean have enough money for the 12 wooden planks?	(b)	Method to find 12 × 6.74 Correct total of £80.88. Answer of "No, he doesn't have enough money".	(3)

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