

Dividing Decimals by Whole Numbers

Video 93 on www.corbettmaths.com

Examples

Workout



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Question 1: Work out

- | | | | |
|-------------------|-------------------|-------------------|-------------------|
| (a) $4.6 \div 2$ | (b) $6.5 \div 5$ | (c) $9.6 \div 3$ | (d) $8.4 \div 4$ |
| (e) $7.2 \div 3$ | (f) $6.8 \div 4$ | (g) $18.5 \div 5$ | (h) $9.6 \div 8$ |
| (i) $14.4 \div 6$ | (j) $27.9 \div 9$ | (k) $9.1 \div 7$ | (l) $36.5 \div 5$ |
| (m) $33.2 \div 4$ | (n) $19.2 \div 3$ | (o) $27.6 \div 6$ | (p) $42.4 \div 8$ |

Question 2: Work out

- | | | | |
|--------------------|--------------------|---------------------|----------------------|
| (a) $3.96 \div 3$ | (b) $0.75 \div 5$ | (c) $8.56 \div 4$ | (d) $0.528 \div 6$ |
| (e) $5.81 \div 7$ | (f) $0.657 \div 9$ | (g) $2.176 \div 8$ | (h) $0.238 \div 7$ |
| (i) $0.119 \div 7$ | (j) $0.072 \div 6$ | (k) $2.556 \div 3$ | (l) $3.325 \div 5$ |
| (m) $701.2 \div 4$ | (n) $9.927 \div 9$ | (o) $12.065 \div 5$ | (p) $0.16024 \div 4$ |

Question 3: Work out

- | | | | |
|--------------------|--------------------|-------------------|-------------------|
| (a) $1.3 \div 2$ | (b) $2.9 \div 2$ | (c) $1.4 \div 5$ | (d) $24.3 \div 5$ |
| (e) $5.4 \div 4$ | (f) $0.038 \div 5$ | (g) $1.4 \div 8$ | (h) $2.13 \div 6$ |
| (i) $0.284 \div 8$ | (j) $54.3 \div 6$ | (k) $47.5 \div 8$ | (l) $7.42 \div 3$ |

Question 4: Work out the following divisions

- | | | | |
|---------------------|---------------------|----------------------|---------------------|
| (a) $8.4 \div 12$ | (b) $0.143 \div 11$ | (c) $34.5 \div 15$ | (d) $0.322 \div 14$ |
| (e) $2.266 \div 22$ | (f) $7.68 \div 12$ | (g) $0.56 \div 16$ | (h) $15.75 \div 25$ |
| (i) $2.12 \div 40$ | (j) $77.25 \div 75$ | (k) $0.9936 \div 23$ | (l) $3.52 \div 110$ |

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Apply

Question 1: Four friends share £6.52 equally.
How much do they each receive?

Question 2: James has 3.65m of rope into 5 pieces of equal length.
How long is equal piece of rope?



Question 3: The perimeter of a square is 53.3cm.
Work out the length of equal side.



Perimeter = 53.3cm

Question 4: SuperSaver sells 6 eggs for £1.14
TopBuys sells 8 eggs for £1.68
BestBuys sells 12 eggs for £2.64

Which shop is best value?

Question 5: Roger is organising a trip to a museum.
The total price of the tickets is £103.50
The total price for the coach is £64.80
If nine people are going on the trip, how much should they pay each?



Question 6: A shop charges 12p to photocopy one page in full colour.
Sam has photocopied some pages in colour and the total cost is £16.08
How many pages did he photocopy?



Question 7: The perimeter of a regular octagon is 4.096cm
Calculate the length of each side.

Answers



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Examples

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Question 1: Work out the answers to the following subtractions

- | | | | |
|-----------------|-----------------|-----------------|-----------------|
| (a) $0.9 - 0.1$ | (b) $0.8 - 0.3$ | (c) $0.7 - 0.6$ | (d) $0.5 - 0.2$ |
| (e) $1.2 - 0.3$ | (f) $1.5 - 0.4$ | (g) $1.8 - 0.6$ | (h) $1.9 - 1.2$ |
| (i) $2.4 - 0.5$ | (j) $3.8 - 2.5$ | (k) $4.1 - 1.8$ | (l) $5.5 - 3.1$ |
| (m) $8.7 - 1.3$ | (n) $9.2 - 5.8$ | (o) $7.3 - 3.9$ | (p) $8.5 - 0.9$ |

Question 2: Work out the answers to the following subtractions

- | | | | |
|-------------------|-------------------|-------------------|-------------------|
| (a) $7.7 - 1.5$ | (b) $8.5 - 4.1$ | (c) $19.7 - 18.6$ | (d) $26.2 - 5.2$ |
| (e) $54.5 - 23.1$ | (f) $80.4 - 10.3$ | (g) $16.6 - 9.2$ | (h) $85.7 - 50.4$ |
| (i) $7.3 - 4$ | (j) $8.6 - 2$ | (k) $24.9 - 6$ | (l) $15.1 - 9$ |
| (m) $7 - 1.3$ | (n) $9 - 3.6$ | (o) $20 - 4.4$ | (p) $32 - 8.7$ |

Question 3: Work out these subtractions

- | | | | |
|-------------------|-------------------|-------------------|-------------------|
| (a) $0.39 - 0.23$ | (b) $0.47 - 0.15$ | (c) $0.75 - 0.41$ | (d) $0.99 - 0.65$ |
| (e) $0.46 - 0.18$ | (f) $0.81 - 0.55$ | (g) $1.24 - 0.72$ | (h) $2.13 - 1.66$ |
| (i) $8.63 - 0.4$ | (j) $5.55 - 3.1$ | (k) $8.13 - 0.5$ | (l) $3.84 - 1.9$ |
| (m) $10.4 - 0.15$ | (n) $5.8 - 1.92$ | (o) $14.5 - 0.77$ | (p) $12 - 4.55$ |

Question 4: Complete these subtractions

- | | | | |
|-------------------|--------------------|----------------------|-----------------------|
| (a) $40.5 - 19.3$ | (b) $88.3 - 52.58$ | (c) $155.73 - 48.89$ | (d) $203.5 - 51.64$ |
| (e) $498 - 70.94$ | (f) $500 - 384.11$ | (g) $8200 - 901.3$ | (h) $10000 - 4901.33$ |

Question 5: Work out each of the following

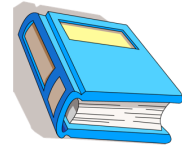
- | | | |
|---------------------|---------------------|---------------------|
| (a) $1.284 - 0.151$ | (b) $2.028 - 1.115$ | (c) $39.45 - 6.061$ |
|---------------------|---------------------|---------------------|

(d) $40.5 - 7.258$

(e) $204.1945 - 203.7885$ (f) $716 - 409.4822$

Apply

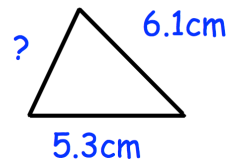
Question 1: Paul buys a book that costs £6.89 and pays with a £10 note. How much change should Paul get?



Question 2: Jennifer has 1.2kg of flour. She uses 0.75kg of the flour to bake a cake. How much flour does she have left?



Question 3: The perimeter of the triangle is 16.1cm. Work out the length of the missing side.



Question 4: The first four terms of a number sequence are

15.8, 15.1, 14.4, 13.7, __, __

Work out the next two terms.

Question 5: Find the missing numbers

$$8.41 + \boxed{} = 25$$

$$17.27 - \boxed{} = 1.89$$

Question 6: Maxine buys 3 magazines that cost £1.99, £2.45 and £3.70. She pays with a £50 note.

Work out how much change she should receive?

Question 7: Angus is working out $7.23 - 1.91$. Can you spot any mistakes?

	7	.	2	3	
	-	1	.	9	1
		6	7	2	

$$7.23 - 1.91 = 672$$

Answers



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Adding Decimals

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Examples

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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

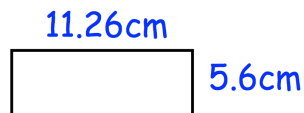
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Question 3: David drives 4.8 miles to Bristol and a further 6.7 miles to Bath.
Work out how far he drives in total.

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.



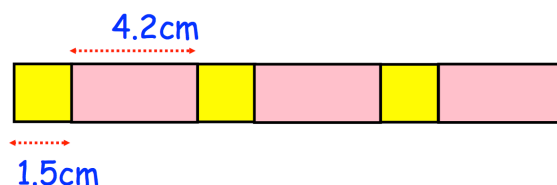
Question 5: Shown is a rectangle.
Calculate the perimeter.



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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Examples



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Workout

Question 1: Work out the answers to the following multiplications

- (a) 1.2×4 (b) 3.2×3 (c) 5.3×2 (d) 7.3×3
(e) 1.6×4 (f) 2.9×5 (g) 4.2×6 (h) 9.5×7
(i) 6.7×8 (j) 3.8×9 (k) 12.8×3 (l) 24.3×4
(m) 37.5×6 (n) 52.8×7 (o) 173.2×3 (p) 215.8×6
(q) 1243.7×9 (r) 79.5×8

Question 2: Work out the answers to the following multiplications

- (a) 1.26×2 (b) 2.63×3 (c) 5.14×3 (d) 6.28×4
(e) 7.53×5 (f) 0.38×8 (g) 9.62×6 (h) 12.38×7
(i) 16.42×9 (j) 109.34×4 (k) 9.08×3 (l) 12.04×7
(m) 0.383×3 (n) 1.442×6 (o) 8.291×3 (p) 9.623×5
(q) 3.706×8 (r) 4.953×7 (s) 0.482×8 (t) 0.085×7
(u) 1.3842×3 (v) 4.3342×6 (w) 8.2039×5 (x) 7.3112×9
(y) 512.83×6 (z) 293.421×4

Question 3: Work out the answers to the following multiplications

- (a) 1.24×13 (b) 2.51×17 (c) 12.5×23 (d) 3.28×21
(e) 6.35×35 (f) 7.65×37 (g) 58.2×46 (h) 4.23×52
(i) 0.28×57 (j) 0.817×63 (k) 38.43×19 (l) 5.45×87
(m) 12.32×73 (n) 2.3×123 (o) 4.7×253 (p) 8.6×351
(q) 2.03×152 (r) 1.02×607

Question 4: Work out the answers to the following multiplications

- (a) 0.2×0.3 (b) 0.7×0.2 (c) 0.9×0.4 (d) 0.8×0.6
(e) 0.7×0.7 (f) 0.6×0.5 (g) 0.8×0.5 (h) 0.5×0.4
(i) 0.8×0.1 (j) 0.07×0.5 (k) 0.04×0.2 (l) 0.8×0.07
(m) 0.06×0.9 (n) 0.04×0.06 (o) 0.08×0.03 (p) 0.02×0.03
(q) 0.003×0.6 (r) 0.9×0.002 (s) 0.008×0.6 (t) 0.005×0.4
(u) 0.007×0.02 (v) 0.008×0.09 (w) 0.04×0.004 (x) 0.005×0.003
(y) 0.008×0.05 (z) 0.009×0.008

Question 5: Work out the answers to the following multiplications

- (a) 3.1×0.5 (b) 6.3×0.3 (c) 5.4×0.7 (d) 9.2×0.6
(e) 4.8×0.9 (f) 2.4×3.2 (g) 9.1×1.3 (h) 5.5×7.7
(i) 1.7×4.3 (j) 9.4×4.9 (k) 0.13×0.7 (l) 0.48×0.3
(m) 0.54×0.9 (n) 0.18×0.17 (o) 8.3×0.37 (p) 3.5×0.74
(q) 0.94×0.02 (r) 0.38×0.06 (s) 0.039×0.7 (t) 0.084×1.2
(u) 8.1×0.05 (v) 9.4×0.082 (w) 0.0048×0.12

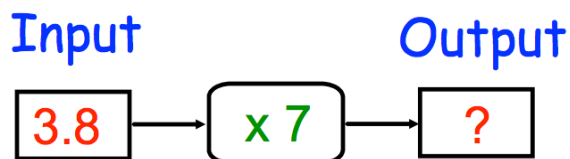
Question 6: Work out the answers to the following multiplications

- (a) 1.29×1.4 (b) 3.52×2.4 (c) 4.92×0.34 (d) 8.12×0.29
(e) 6.3×2.46 (f) 9.2×7.15 (g) 0.843×1.9 (h) 0.548×2.7
(i) 6.18×5.1 (j) 18.2×6.4 (k) 5.03×2.8 (l) 40.8×5.3

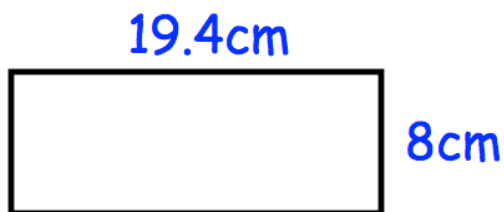
Apply

Question 1: Regan is paid £6.70 per hour. He works 8 hours in a week.
Work out how much Regan should be paid.

Question 2: Calculate the output



Question 3: Calculate the area of the rectangle



Question 4: A bottle of cola costs £1.29
Calculate the total cost of 6 bottles of cola.



Question 5: Mr and Mrs Jones bring their 5 children to a museum.

Adults	£17.60 each
Children	£7.55 each

Work out the total cost for the family.

Question 6: Class 8A are going on a trip to a windmill.



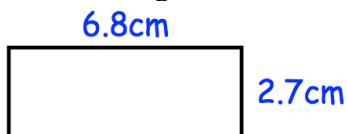
The trip costs £3.70 each and there are 26 students in 8A.
How much money should be collected?

Question 7: Mr. Jenkins is building a fence for his garden.
The fence costs £12.60 per metre to build.
The fence is 5.3 metres long.



Work out the total cost of building the fence.

Question 8: Calculate the area of this rectangle.



Question 9: Here are the prices of some fruit in a shop.



£0.97 per kilogram



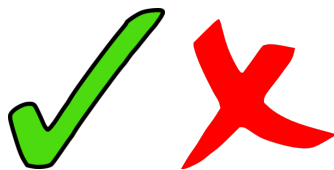
£1.07 per kilogram



£1.46 per kilogram

Find the total cost of 1.2kg of apples, 3.5kg of oranges and 1.9kg of bananas.

Answers



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