THIRD SPACE
LEARNING

Multiplying Decimals - Worksheet

Skill

Group A - Multiplying an integer by a decimal

Work out the following:

1) 1.3×2

2) 4.4×3

3) 6.7×2

4) 3.9×9

5) 7.7×10

6) 10.2×3

7) 48.2×4

8) 87.9×3

9) 29.3×5

10) 37.4×8

11) 147.2×9

12) 889.3×8

Group B - Multiplying an integer by a decimal

Work out the following:

1) 1.26×4

2) 5.37×7

3) 9.82×9

4) 12.42×3

5) 18.97×5

6) 0.381×4

7) 0.455×9

8) 1.65×12

9) 5.48×82

10) 12.97×83

11) 292.43×11

12) 512.84×17

Group C - Multiplying a decimal by a decimal

Work out the following:

1) 0.4×0.7

2) 0.8×0.9

3) 0.07×0.5

4) 6.3×2.4

5) 9.2×7.8

6) 0.05×9.7

7) 1.24×3.2

8) 8.44×1.9

9) 9.33×2.9

10) 12.32×4.2

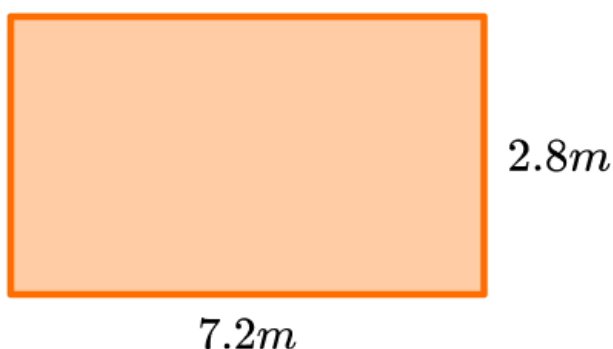**11)** 18.22×14.2

12) 29.87×82.42

Multiplying Decimals- Worksheet

Applied

1) **(a)** A jumper costs £17. 49. Work out the cost of 3 jumpers.

   (b) If I pay with three £20 notes, what change will I receive?

2) Work out the area of the rectangle below.

2.8m

7.2m

3) Mr. and Mrs. Perry are buying theme park tickets for themselves and their 2 children.

   Adults £14. 99
   Children £8. 42

   Work out the cost for the entire family to go to the theme park.

4) **(a)** Billy is changing pounds to Canadian dollars.
   The exchange rate is £1 = $1. 55 CDN.
   Convert £7 to Canadian dollars.

   (b) Convert £18. 50 to Canadian dollars.

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Multiplying Decimals - Exam Questions

1) **(a)** 2.8×7 ....
                                                                    (2)

(b) 4.2×2.1 ....
                                                                    (2)

(b) 73.2×0.85 ....
                                                                    (2)
                                                                    (6 marks)

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2) **(a)** Find the area of the rectangle shown below:

2.7m

7.9m

....
                                                                    (2)
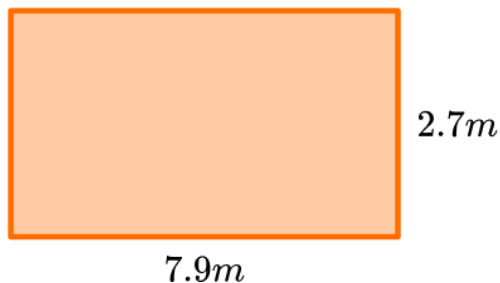
(b) Convert your answer to cm^2

....
                                                                    (2)
                                                                    (4 marks)

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3) Given that $279 \times 33 = 9207$
Use this information to work out the following:

(a) $279 \times 330 =$ ....
                                                                    (1)
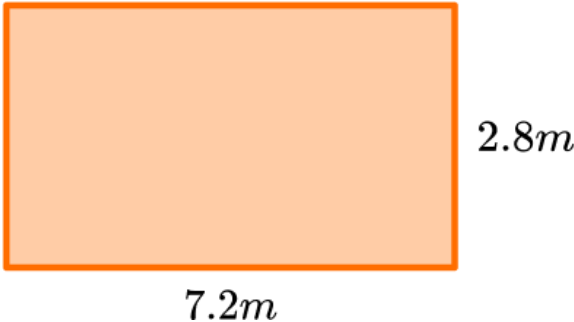
(b) $2.79 \times 3.3 =$ ....
                                                                    (1)

(c) $27.9 \times 0.33 =$ ....
                                                                    (1)
                                                                    (3 marks)

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Multiplying Decimals - Answers

	Question	Answer
	Skill Questions	
Group A	Work out the following: **1)** 1.3×2 **2)** 4.4×3 **3)** 6.7×2 **4)** 3.9×9 **5)** 7.7×10 **6)** 10.2×3 **7)** 48.2×4 **8)** 87.9×3 **9)** 29.3×5 **10)** 37.4×8 **11)** 147.2×9 **12)** 889.3×8	**1)** 2.6 **2)** 13.2 **3)** 13.4 **4)** 35.1 **5)** 77 **6)** 30.6 **7)** 192.8 **8)** 263.7 **9)** 146.5 **10)** 299.2 **11)** 1324.8 **12)** 7114.4
Group B	Work out the following: **1)** 1.26×4 **2)** 5.37×7 **3)** 9.82×9 **4)** 12.42×3 **5)** 18.97×5 **6)** 0.381×4 **7)** 0.455×9 **8)** 1.65×12 **9)** 5.48×82 **10)** 12.97×83 **11)** 292.43×11 **12)** 512.84×17	**1)** 5.04 **2)** 37.59 **3)** 88.38 **4)** 37.26 **5)** 94.85 **6)** 1.524 **7)** 4.095 **8)** 19.8 **9)** 449.36 **10)** 1076.51 **11)** 3216.73 **12)** 8718.28

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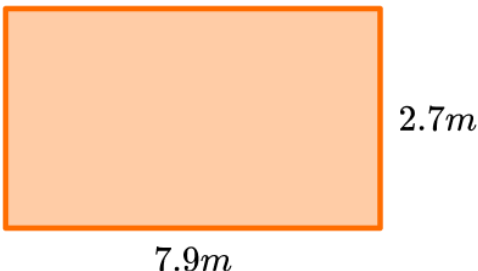
Multiplying Decimals - Answers

Group C	Work out the following:	
	1) 0.4×0.7	**1)** 0.28
	2) 0.8×0.9	**2)** 0.72
	3) 0.07×0.5	**3)** 0.035
	4) 6.3×2.4	**4)** 15.12
	5) 9.2×7.8	**5)** 71.76
	6) 0.05×9.7	**6)** 0.485
	7) 1.24×3.2	**7)** 3.968
	8) 8.44×1.9	**8)** 16.036
	9) 9.33×2.9	**9)** 27.057
	10) 12.32×4.2	**10)** 51.744
	11) 18.22×14.2	**11)** 258.724
	12) 29.87×82.42	**12)** 2461.8854

Multiplying Decimals - Answers

	Question	Answer
	Applied Questions	
1)	a) A jumper costs £17.49. Work out the cost of 3 jumpers.	a) £52.47
	b) If I pay with three £20 notes, what change will I receive?	b) £7.53
2)	Work out the area of the rectangle below. 2.8m 7.2m	$20.16m^2$
3)	Mr. and Mrs. Perry are buying theme park tickets for themselves and their 2 children. Adults £14.99 Children £8.42 Work out the cost for the entire family to go to the theme park.	£46.82
4)	a) Billy is changing pounds to Canadian dollars. The exchange rate is £1 = $1.55 CDN. Convert £7 to Canadian dollars.	a) $10.85
	b) Convert £18.50 to Canadian dollars.	b) $28.68 (to 2 decimal places)

Multiplying Decimals - Mark Scheme

	Question	Answer	
	Exam Questions		
1) (a)	2.8×7	**(a)** Written method to work out 2.8×7 **(1)** 19.6 **(1)**	**(2)**
(b)	4.2×2.1	**(b)** Written method to work out 4.2×2.1 **(1)** 8.82 **(1)**	**(2)**
(c)	73.2×0.85	**(c)** Written method to work out 73.2×0.85 **(1)** 62.22 **(1)**	**(2)**
2) (a)	Shown on the right is a rectangle. Find the area of the rectangle. 2.7m 7.9m	**(a)** Written method to work out 2.7×7.9 **(1)** 21.33m^2 **(1)**	**(2)**
(b)	Convert your answer to cm^2	**(b)** 21.33×100^2 **(1)** $213\,300\text{cm}^2$ **(1)**	**(2)**
3) (a)	Given that $279 \times 33 = 9207$ Use this information to work out the following: $279 \times 330 =$	**(a)** $92\,070$ **(1)**	**(1)**
(b)	$2.79 \times 3.3 =$	**(b)** 9.207 **(1)**	**(1)**
(c)	$27.9 \times 0.33 =$	**(c)** 9.207 **(1)**	**(1)**