## LO: To multiply decimals by an integer. ANSWERS

## Adorable Challenge

1. Copy out and complete these questions:
$1.3 \times 5=6.5$
$6.2 \times 3=18.6$
$7.4 \times 2=14.8$
$3.8 \times 4=15.2$
$5.2 \times 4=20.8$
$8.1 \times 3=24.3$
2. True or False?
$1.8 \times 4=6.2$ False. The answer is $7.2 \quad 5.6 \times 3=16.8$ True $\quad 4.3 \times 2=8.3$ False. The answer is 8.6
3. Use <, > or = to complete the statements below:
$2.9 \times 5$ _=_ 14.5
16.6 _<_ $8.4 \times 2$
$3.4 \times 3$ _>_ 9.2
4. Which is the odd one out in each row? Explain your reasoning.
$5.3 \times 3=15.9$
$6.8 \times 2=13.6$
$3.4 \times 4=13.6$

The first equation is the odd one out as it equals 15.9 and the others both equal 13.6.
$4.4 \times 4=17.6$
$8.8 \times 2$ = 17.6
$9.1 \times 2=18.2$

The last equation is the odd one out as it equals 18.2 and the others both equal 17.6.
5 . Select and arrange the cards to create a correct multiplication calculation. Which cards are not needed in each set?

$4.1 \times 5=20.5$. The cards 5.2, 21.5 and 4 are not needed.

$7.3 \times 3=21.9$. The cards 6.3, 24.9 and 4 are not needed.
6. Mr Chen asked the children to complete the following calculations. What mistake has each child made? What are the correct answers?


## $7.2 \times 4=$



The product is 15.3

## The product is 11.2



Z

This child has added the numbers not multiplied them. The correct answer is 28.8 .
$3.3 \times 5=$
This child has not multiplied the tenths by 5. They have done $3 \times 5=15$ and then added 0.5 . The correct answer is 16.5 .

## Majestic Challenge

1. Copy out and complete these questions:
$1.52 \times 7=10.64$
$8.38 \times 2=16.76$
$5.44 \times 9=48.96$
$6.82 \times 3=20.46$
$3.97 \times 5=19.85$
$6.28 \times 4=25.12$
2. True or False?
$4.86 \times 6=29.61$ False. It should be 29.16
$2.59 \times 7=19.13$ False. It should be 18.13
$7.28 \times 8=58.28$ False. It should be 58.24
3. Use <, > or = to complete the statements below:
$7.16 \times 4$ _=_ 28.64
36.31 _>_ $3.92 \times 8$
$9.26 \times 3$ _<_ 28.78
4. Which is the odd one out in each row? Explain your reasoning.
$6.36 \times 4=25.44 \quad 4.88 \times 6=29.28 \quad 3.18 \times 8=25.44$
The second equation is the odd one out as it equals 29.28. Both the others equal 25.44 .
$2.78 \times 8=22.24 \quad 3.93 \times 7=27.51 \quad 5.56 \times 4=22.24$
The second equation is the odd one out as it equals 27.51. Both the others equal 22.24.
5. Select and arrange the cards to create a correct multiplication calculation. Which cards are not needed in each set?

$7.31 \times 5=36.55$. The cards 7.29, 6, 8.2835 .65 and 8 are not needed.

$8.43 \times 6=50.58$. The cards 32.21, $5.85,8,5$ and 46.71 are not needed.
6. Mr Smith asked the children to complete the following calculations. What mistake has each child made? What are the correct answers?

This child has not multiplied the tenths and hundredths by 6 . She has worked out $5 \times 6=30$ then added the decimal places. The correct answer is 32.82 .

## $5.47 \times 6=$



This child has written the tenths and hundredths in the incorrect order. The correct answer is 48.37.

## $6.91 \times 7=$

## Radiant Challenge

1. Copy out and complete these questions:
$7.046 \times 8=56.368$
$9.187 \times 6=55.122$
$8.902 \times 7=62.314$
$6.549 \times 9=58.941$
$5.724 \times 8=45.792$
$8.043 \times 6=48.258$
2. True or False?
$6.024 \times 8=48.092$ False. It is 48.192
$9.407 \times 5=47.305$ False. It is 47.035
$7.807 \times 7=53.649$ False. It is 54.649
3. Use <, > or = to complete the statements below:
$4.856 \times 9$ _>_ $43.074 \quad 47.409$ _>_ $7.902 \times 6.713 \times 8$ _>_ 29.074
4. Which is the odd one out in each row? Explain your reasoning.
$8.058 \times 3=24.174$
$6.043 \times 8=48.344$
$4.029 \times 6=24.174$

The second equation is the odd one out as it equals 48.344. Both the others equal 24.174.
$5.031 \times 7=35.217$
$9.502 \times 4=38.008$
$4.751 \times 8=38.008$

The first equation is the odd one out as it equals 35.217. Both the others equal 38.008.
5. Select and arrange the cards to create a correct multiplication calculation. Which cards are not needed in each set?

$7.607 \times 9=68.463$. The cards 53.468, $7.706,8,6.706$ and 69.534 are not needed.

$6.084 \times 9=54.756$. The cards 57.762, $7,6.804,47.268$ and 6.408 are not needed.
6. Mr Smith asked the children to complete the following calculations. What mistake has each child made? What are the correct answers?
$5.097 \times 7=$


This child has 0 tenths in her answer. She has forgotten to carry the 6 tenths over. The correct answer is 35.679 .

This child has not included the 0 tenths in his answer. The correct answer is 32.016 .


