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# Year 6 Autumn Themed Maths Activity Booklet Answers

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# Place Value Code Breaker Answers

									
3	1	6	5	4	0	8	7	2	9

What is the number						rounded to the nearest 10?
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Answer: 36 990

What is the number						rounded to the nearest 100?
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Answer: 71 800

What is the number						rounded to the nearest 1000?
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Answer: 81 000

What is the number					written in Roman numerals?
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Answer: MMM DCCCXCVI

What is the number					written in Roman numerals?
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Answer: MDCII

What is the number					written in Roman numerals?
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Answer: MMCXXXIV

# Calculations Code Breaker Answers

Solve the calculations and use the code breaker to spell out the autumn-themed words.

A	B	C	D	E	F	G	H	I	J	K	L	M
3	23	13	20	6	10	1	15	19	24	4	9	17

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14	2	7	21	11	25	8	26	16	5	22	12	18

	Answer	Letter
$-10 + 23$	13	C
$1^2 + 1^2$	2	O
$(2 \times 5) + 2^2$	14	N
$2^3 \div 2$	4	K
$7.15 - 1.15$	6	E
$(100 - 45) \div (-6 + 11)$	11	R

	Answer	Letter
50% of 20	10	F
$\frac{1}{10}$ of 190	19	I
$121 \div 11$	11	R
$2^3 - 2$	6	E
$\square^2 = 25$	5	W
$-1 + 3$	2	O
$0.11 \times 100$	11	R
$4000 \div 10^3$	4	K

	Answer	Letter
$3^2$	9	L
$180 \div 30$	6	E
$4^2 - 13$	3	A
$7.4 + 2.6$	10	F

	Answer	Letter
$(100 - 1) \div (10 - 1)$	11	R
$2/12$ of 36	6	E
$2^3 + 12$	20	D

	Answer	Letter
$\square^2 = 49$	7	P
$3^3 - 1$	26	U
$15.5 + 1.5$	17	M
$4900 \div 700$	7	P
$2.82 + 1.18$	4	K
$5^2 - 6$	19	I
$280 \div 20$	14	N
$2500 \div 10^2$	25	S

	Answer	Letter
$3000 \div 200$	15	H
$300 \div 10^2$	3	A
$10 + 1^2$	11	R
$4^2$	16	V
$2.92 + 3.08$	6	E
$5^2$	25	S
$4.61 + 3.39$	8	T

# Autumn Calculations Mosaic Answers

Work out the numbers to reveal the hidden picture. Each value has a special colour.

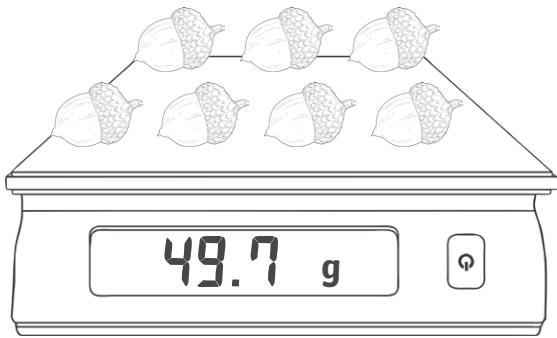
**brown** = 7200 | **blue** = 7500 | **red** = 7800 | **yellow** = 8100 | **orange** = 8400

$5927 + 1573$	$5124 + 2376$	$6329 + 1171$	$7692 - 192$	$2650 + 5450$	$5959 + 1841$	$8263 - 463$	$1171 + 6629$	$715 + 7085$
$8233 - 733$	$8899 - 1399$	$3637 + 3863$	$4865 + 2935$	$3101 + 4699$	$718 + 6482$	$8300 - 500$	$757 + 7343$	$1920 + 5880$
$1528 + 6872$	$9959 - 1559$	$5858 + 1642$	$9972 - 1872$	$5518 + 2282$	$1036 + 6764$	$3412 + 3788$	$7554 + 246$	$2107 + 5993$
$958 + 7442$	$1108 + 6992$	$3979 + 4421$	$8688 - 888$	$7262 - 62$	$9526 - 1426$	$938 + 6262$	$677 + 7123$	$9756 - 2556$
$7787 + 613$	$7308 + 1092$	$5993 + 2107$	$7787 + 613$	$9892 - 2092$	$1566 + 5634$	$6967 + 233$	$1827 + 5373$	$333 + 7467$
$1162 + 7238$	$9512 - 2312$	$4334 + 4066$	$8703 - 303$	$9999 - 2499$	$4399 + 3401$	$3043 + 4157$	$2546 + 4654$	$7619 + 481$
$1685 + 5515$	$3574 + 3626$	$1208 + 5992$	$9875 - 1775$	$6810 + 690$	$8001 - 501$	$658 + 6542$	$6012 + 1188$	$2012 + 5488$
$7347 + 753$	$8888 - 1688$	$1577 + 6823$	$1980 + 5520$	$9516 - 2016$	$5501 + 1999$	$4380 + 2820$	$5190 + 2010$	$1979 + 5521$
$9286 - 1786$	$7398 - 198$	$1042 + 6458$	$1964 + 5536$	$8825 - 1325$	$6169 + 1331$	$552 + 6648$	$3129 + 4071$	$3260 + 4240$
$5927 + 1573$	$6508 + 692$	$7992 - 492$	$7471 + 29$	$5145 + 2355$	$453 + 7147$	$9221 - 2021$	$7641 - 441$	$6329 + 1171$

# Autumn Measures Answers

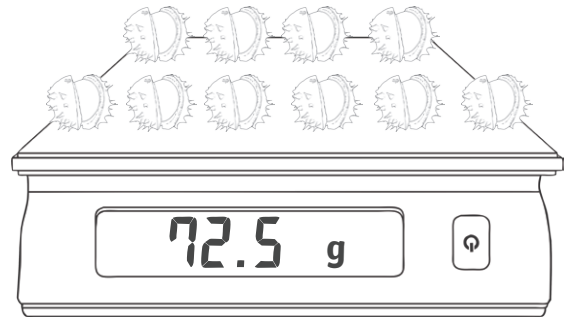
Read the digital scales and calculate the mass of one item.

Show your working out in each box. The first one has been done for you.



$$49.7 \div 7 = 7.1$$

$$\text{acorn} = 7.1\text{g}$$



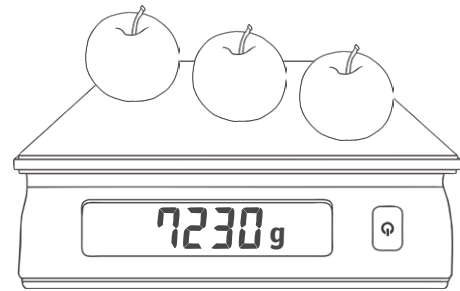
$$72.5 \div 10 = 7.25$$

$$\text{pumpkin} = 7.25\text{g}$$



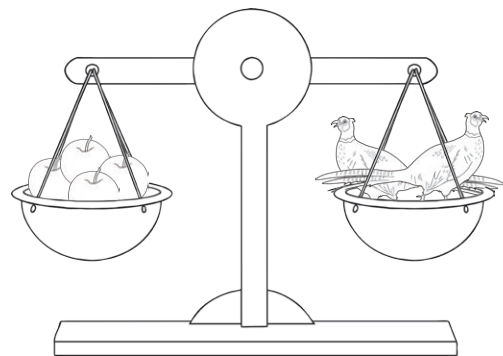
$$2904 \div 6 = 484$$

$$\text{hedgehog} = 484\text{g}$$



$$7230 \div 3 = 2410$$

$$\text{apple} = 2410\text{g}$$



$$2410 \times 4 = 9640$$


$$9640 \div 2 = 4820$$


$$\text{chicken} = 4.82 \text{ kg}$$


# Autumn Measures Answers


Calculate the length of one item.

Write the calculation you use. The first one has been done for you.


$$\underline{265 \div 5 = 53}$$
  
 = 53mm

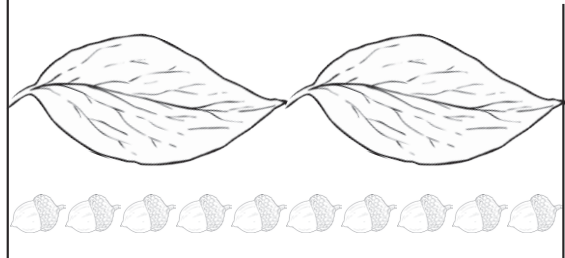
$$\underline{843 \div 10 = 84.3}$$
  
 = 8.43 cm

$$\underline{950 \div 5 = 190}$$
  
 = 19 cm

$$\underline{540 \div 3 = 180}$$
  
 = 180cm

$$\underline{2 \times 180 = 360}$$
  











$$\underline{360 \div 10 = 36}$$
  
 = 0.36 m















# Autumn Number Cross Answers






Use the code to complete the calculations. Solve each one using written methods of multiplication.






									
3	1	6	5	4	0	8	7	2	9






## Across

2.    ×  






3.    ×  






4.    ×  






6.    ×  






7.    ×  

## Down

1.    ×  

3.    ×  

5.    ×  

6.    ×  

			1		
			2		
2	3	8	3	1	8
			0		
			6		
		3	3	2	8
			5		5
		9			
		4	5	5	5
				1	2
		7		4	
	6	1	9	8	0
					9
		3			7
		5			6
7	5	6	1	4	7
		3			

## Across

2.  $782 \times 49 = 38\,318$

3.  $951 \times 35 = 33\,285$

4.  $424 \times 13 = 5512$

6.  $279 \times 71 = 19\,809$

7.  $617 \times 91 = 56\,147$

## Down

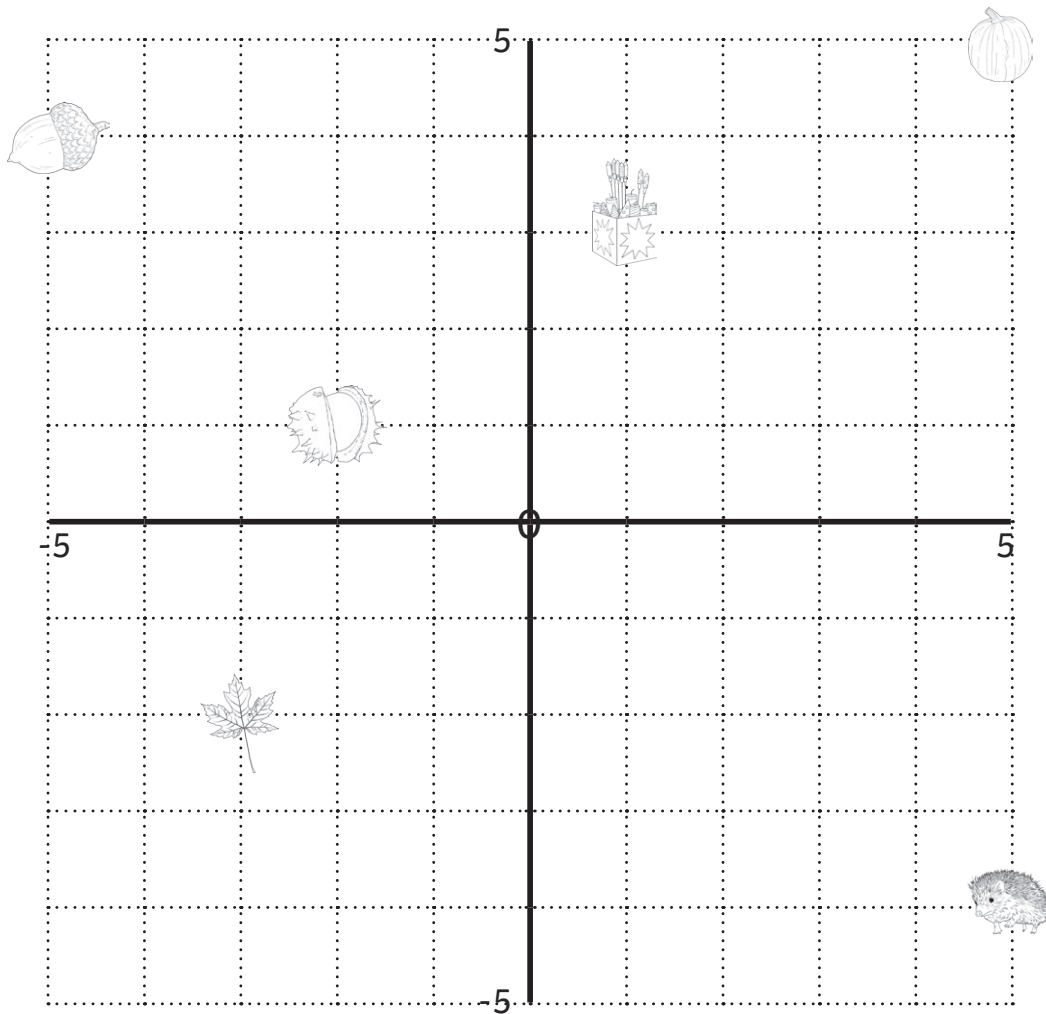
1.  $357 \times 59 = 21\,063$

3.  $514 \times 77 = 39\,578$







5.  $288 \times 52 = 14\,976$

6.  $411 \times 33 = 13\,563$

# Autumn Coordinates Answers



Write the coordinates of each autumn-themed object. Translate each object and write its new coordinates.

Object	Starting Coordinates	Translation	Ending Coordinates
	(5, 5)	Left 4, Down 3	(1, 2)
	(1, 3)	Left 5, Down 5	(-4, -2)
	(-5, 4)	Right 6, Down 2	(1, 2)
	(-2, 1)	Left 2, Down 5	(-4, -4)
	(-3, -2)	Right 6, Up 3	(3, 1)
	(5, -4)	Left 2, Up 5	(3, 1)



# Autumn Number Puzzles Answers

I collect some conkers on my walk home from school.

I multiply the number of conkers by 7.

I then subtract 22,

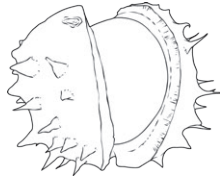
multiply by 25,

subtract 9,

and divide by 17.

I end with the number 173.

How many conkers did I collect? **20**



Eva and Melody pick some blackberries to make some blackberry pies.

They weigh the berries and share them equally between them.

Eva eats 85g of her berries on the walk home.

She divides the berries between three pie dishes.

Each dish now contains 255g of berries.

How many kilograms of berries did Melody and Eva pick? **1.7kg**



Eddie watches a firework display.

50% of the fireworks were Catherine wheels.

$\frac{1}{7}$  of the remaining fireworks were fountains.

The rest were Roman candles.

There were 36 Roman candles.

How many fireworks were there in total? **84**

