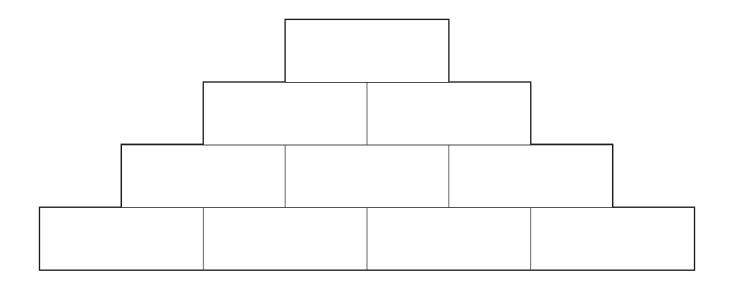
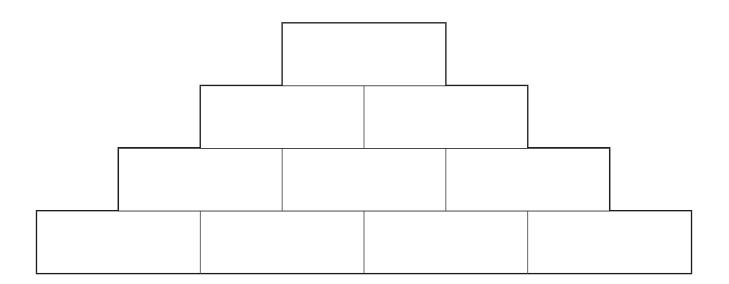
## **Blank Pyramid**



### **Blank Pyramid**





## **Missing Number Vault**

I can find missing numbers using the inverse.

Secret Agent 1Q, you need to work out the con- gather the secret document before anyone el To gain a digit of the code, you must ans number sentences and then use the missing the corresponding question. Once all the cor-	se does! wer the four missing numbers to answer responding questions				
have been answered, you will have the three the vault. Vault Code:					
1949 + + 3952 = 15 226	Vault Question:				
÷ 23 = 875	Add the missing numbers.				
75 × = 4050	What is the digit inn the ten thousands place?				
68 431 = 40 786					
× 25 = 6875	Vault Question:				
7704 ÷ = 1284 36 664 = 28 977	Which missing number is a multiple of three?				
2900 ÷ = 145					
970 254 + = 1 504 812	Vault Question:				
684 325 = 272 230 120 675 ÷ = 4827	Which missing number is less than 24?				
1548 × = 13 932					
	STRCEBLE LA				



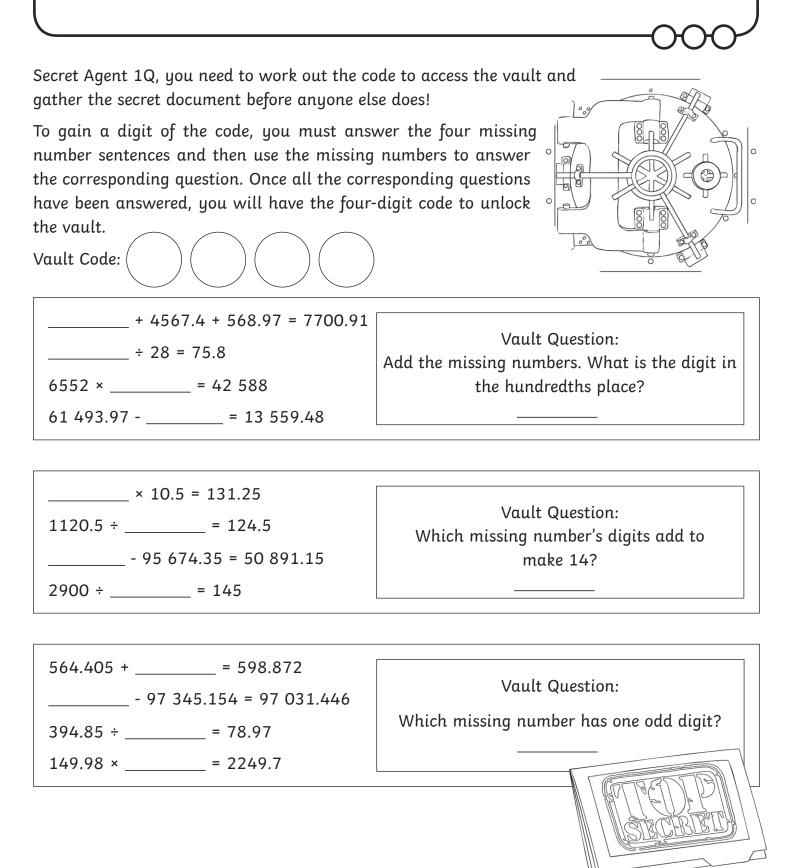
### Missing Number Vault **Answers**

Question	Answer								
	To gain a digit of the code, you must answer the four missing number sentences and then use the missing numbers to answer the corresponding question. Once all the corresponding questions have been answered, you will have the three-digit code to unlock the vault.								
	Vault Code: <b>569</b>								
	1949 + <b>9325</b> + 3952 = 15 226	Vault Question							
	<b>20 125</b> ÷ 23 = 875	Add the missing numbers. What is the digit							
	75 × <b>54 =</b> 4050	in the ten thousands place?							
	68 431 - <b>27 645 =</b> 40 786	<b>s</b> (57 149)							
	<b>275</b> × 25 = 6875	Vault Question							
	7704 ÷ <b>6</b> = 1284	Which missing number is a multiple							
	<b>65 641</b> - 36 664 = 28 977	of three?							
	2900 ÷ <b>20</b> = 145	6							
	970 254 + <b>534 558</b> = 1 504 812	Vault Question							
	<b>956 555</b> - 684 325 = 272 230	Vault Question							
	120 675 ÷ <b>25</b> = 4827	Which missing number is less than 24?							
	1548 × <b>9</b> = 13 932	9							



# **Missing Number Vault**

I can find missing numbers using the inverse.







### Missing Number Vault **Answers**

Question	on Answer							
	To gain a digit of the code, you must answer the four missing number sentences and then use the missing numbers to answer the corresponding question. Once all the corresponding questions have been answered, you will have the four-digit code to unlock the vault.							
	Vault Code: <b>3595</b>							
	<b>2564.54</b> + 4567.4 + 568.97 = 7700.91	Vault Question						
	<b>2122.4</b> ÷ 28 = 75.8	Add the missing numbers. What is the digit						
	6552 × <b>6.5</b> = 42 588	in the hundredths place? <b>3</b> (52 627.93)						
	61 493.97 - <b>47 934.49</b> = 13 559.48							
	<b>12.5</b> × 10.5 = 131.25	Vault Question						
	1120.5 ÷ <b>9</b> = 124.5	Which missing number's digits add to						
	<b>146                                    </b>	make 14?						
	478 × <b>5.9</b> = 2820.2	5.9						
	564.405 + <b>34.467 =</b> 598.872	Vault Question						
	<b>194 376.6</b> - 97 345.154 = 97 031.446	Vault Question						
	394.85 ÷ <b>s</b> = 78.97	Which missing number has one odd digit?						
	149.98 × <i>IS</i> = 2249.7	5						



## **Missing Number Vault**

I can find missing numbers using the inverse.

Secret Agent 1Q, you need to work out the code to access the vault and gather the secret document before anyone else does! To gain a digit of the code, you must answer the four missing number sentences and then use the missing numbers to answer the corresponding question. Once all the corresponding questions have been answered, you will have the three-digit code to unlock the vault. Vault Code: 72\_.7 + \_25.\_4 + 6\_5.8\_ = 2300.11 Vault Question: 13 543 ÷ 2\_\_ = 467 Add the missing digits. What is the digit in \_\_\_46.54 × 8.5 = 4645.59 the tens place?  $176_{54} - 7_{4.9} = 1013.565$ 47.\_\_ × 1\_\_.5 = 926.25 Vault Question: 11 844 ÷ 1 = 658 Add the missing digits. What digit is in the 47. - 9 .468 = 55.332 ones place? \_\_\_\_4 × 4.8 = 2227.2 5\_4.\_4 + \_57.\_43 = 942.38\_ Vault Question: 5\_.\_\_64 - \_\_8.48 = 26.084 Add the missing digits. What is the digit in 1721.09 ÷ \_\_ = 245.87 the tens place? 278.87 × 1 = 4183.05





### Missing Number Vault **Answers**

Question	Question       Answer         To gain a digit of the code, you must answer the four missing number sentences and then use the missing numbers to answer the corresponding question. Once all the corresponding questions have been answered, you will have the three-digit code to unlock the vault.							
	Vault Code: <b>635</b>							
	72 <b>8</b> .7 + <b>9</b> 25. <b>5</b> 4 + 6 <b>4</b> 5.8 <b>7 =</b> 2300.11	Vault Question						
	13 543 ÷ 2 <b>9</b> = 467 <b>s</b> 46.54 × 8.5 = 4645.59	Add the missing digits. What is the digit in the tens place?						
	176 <b>8</b> .54 - 7 <b>5</b> 4.9 <b>7</b> 5 = 1013.565	<b>6</b> (67)						
	47. <b>s</b> × 1 <b>9</b> .5 = 926.25	Vault Question						
	11 844 ÷ 1 <b>8 =</b> 658 <b>1</b> 47. <b>8</b> - 9 <b>2</b> .468 = 55.332	Add the missing digits. What digit is in the ones place?						
	<b>46</b> 4 × 4.8 = 2227.2	<b>3</b> (43)						
	5 <b>8</b> 4. <b>5</b> 4 + <b>3</b> 57. <b>8</b> 43 = 942.38 <b>3</b>	Vault Question						
	5 <b>4.5</b> 64 - <b>2</b> 8.48 = 26.084	Add the missing digits. What is the digit in						
	1721.09 ÷ <b>7</b> = 245.87	the tens place?						
	278.87 × 1 <b>5</b> = 4183.05	<b>s</b> (50)						



Ans	wers
-----	------

1)		2)	
130 ÷ <i>10</i> = 13	6.5 × 10 = <b>65</b>	110 ÷ 2 = 55	27.5 × 4 = 110
130 ÷ <b>20</b> = 6.5	<b>130</b> = 6.5 × 20	110 ÷ 4 = <b>27.5</b>	110 = <b>27.5</b> × 4
130 ÷ <b>s</b> = 26	<b>13</b> = 6.5 × 2	110 ÷ 8 = <b>13.75</b>	55 = <b>13.75</b> × 4

3) Show that we know the answer to  $17 \times 289 = 4913$ , so we only need to complete the calculation 4913 + 289 to find that  $18 \times 289 = 5202$ .

1)		True or False?		Mistakes Made	
	660 ÷ 1.2 = 550	True			
	5.5 × 12 = 6.6	False	66	55 × 12 = 660 In 5.5 × 12 = 6.6, the 5.5 is ten times smaller so the answer will be ten times smaller (66).	
	5.5 × 1.2 = 0.66 False 6.6		6,6	55 × 12 = 660 In 5.5 × 1.2 = 6.6, both numbers are ten times smaller so the answer will be one hundred times smaller (6.6).	-
	66 ÷ 12 = 5.5	True			
	120 × 55 = 660 False 66		6600	55 × 12 = 660 In 120 × 55 = 660, the 120 is ten time greater than the 12 so the answer will be ten times greater (6600).	

2)

a) 30 × 5 = 150 star jumps.

b) 50 is ten times greater than 5, so the answer will be ten times greater than 150. He will have done 1500 star jumps.

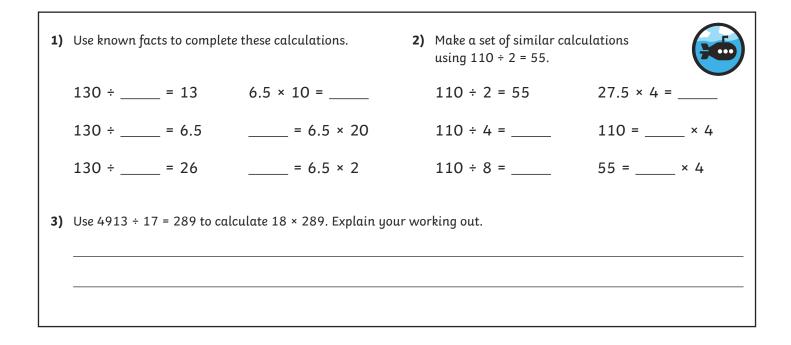
c) 4500 is three times 1500. I know that 1500 star jumps takes 50 days, so 4500 star jumps will take 150 days (3 × 150).



Answers

									1	$\square$
1)			61	67	37	13.25	99	15.5		( -
			57	36	9.9	88	14.25	88		6
	60	59	58	14	15.75	26	55	5		
	22	20	21	13.5	14.75	27	54	4		
	9	8	6.75	29.5	28.5	28	53	118		
			6.5	30	83	2.5	1.5	2		
			7.5	11.5	117	33				
	8.4	69	2.25	20.25	99	77				
	270 ÷ 10 = <b>27</b>						<b>)</b> = 29.5	5	13 = 6.5 × <b>2</b>	
	270 ÷ 20 = <b>13.5</b>						8 = 14.7	75	<b>29.5</b> × 4 = 118	
	270 ÷ 5 = <b>54</b>					<b>6.75</b> × 40 = 270			<i>118</i> = 29.5 × 4	
	118 ÷	2 = <b>59</b>			1	130 = 6	o.5 × <b>20</b>	)	59 = <b>14.75</b> × 4	







Use this calculation to decide if the following calculations are true or false.
 For any false calculations, give the correct answer and explain the mistake that has been made.

55 × 12	55 × 12 = 660		Correct Answer	Mistakes Made
660 ÷ 1	1.2 = 550			
5.5 × 1	12 = 6.6			
5.5 × 1.	.2 = 0.66			
66 ÷ 1	2 = 5.5			
120 × 5	55 = 660			

- 2) Rami keeps fit by doing 30 star jumps every day.
  - a) How many star jumps will he have done after 5 days? Explain your working out.

**b)** How many star jumps will he have done after 50 days? Give your answer and explain how you used the previous calculation to help you.

c) Rami has completed 4500 star jumps. How many days is this? Give your answer and explain how you used the previous calculation to help you.

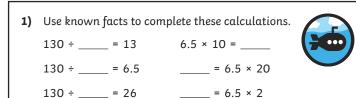


1) Use known facts to complete these calculations. Shade each answer on the maze to find the path from the money to the bank vault.



			61	67	37	13.25	99	15.5	
			57	36	9.9	88	14.25	88	
	60	59	58	14	15.75	26	55	5	
	22	20	21	13.5	14.75	27	54	4	
	9	8	6.75	29.5	28.5	28	53	118	
	7	6	6.5	30	83	2.5	1.5	2	
	57	12.25	7.5	11.5	117	33			
	8.4	69	2.25	20.25	99	77			
270 ÷ 10 =			1	.18 ÷	= 2	9.5		13 = 6	o.5 ×
270 ÷ 20 =			1	.18 ÷	= 1	4.75			× 4 = 118
270 ÷ 5 = _			_	× 2	40 = 27	0			= 29.5 × 4
118 ÷ 2 = _			1	.30 = 6.	5 ×	_		59 = _	× 4





2) Make a set of similar calculations using  $110 \div 2 = 55$ .

110 ÷ 2 = 55 27.5 × 4 = \_\_\_\_

- 110 ÷ 4 = \_\_\_\_ × 4
- 110 ÷ 8 = \_\_\_\_ × 4
- 3) Use 4913 ÷ 17 = 289 to calculate 18 × 289. Explain your working out.
- Use this calculation to decide if the following calculations are true or false. For any false calculations, give the correct answer and explain the mistake that has been made.



L				
	55 × 12 = 660	True or False?	Correct Answer	Mistakes Made
	660 ÷ 1.2 = 550			
	5.5 × 12 = 6.6			
	5.5 × 1.2 = 0.66			
	66 ÷ 12 = 5.5			
	120 × 55 = 660			

- 2) Rami keeps fit by doing 30 star jumps every day.
  - a) How many star jumps will he have done after 5 days? Explain your working out.
  - **b)** How many star jumps will he have done after 50 days? Give your answer and explain how you used the previous calculation to help you.
  - c) Rami has completed 4500 star jumps. How many days is this? Give your answer and explain how you used the previous calculation to help you.

 1) Use known facts to complete these calculations.

  $130 \div$  = 13
  $6.5 \times 10 =$ 
 $130 \div$  = 6.5
 =  $6.5 \times 20$ 
 $130 \div$  = 26
 =  $6.5 \times 2$  

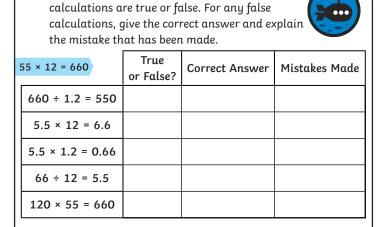
 2) Make a set of similar calculations using  $110 \div 2 = 55$ .
  $110 \div 2 = 55$ 
 $110 \div 4 =$  110 =  $\times 4$ 

55 = \_\_\_\_ × 4

3) Use 4913 ÷ 17 = 289 to calculate 18 × 289. Explain your working out.

1) Use this calculation to decide if the following

110 ÷ 8 = \_\_\_\_



- 2) Rami keeps fit by doing 30 star jumps every day.
  - a) How many star jumps will he have done after 5 days? Explain your working out.
  - **b)** How many star jumps will he have done after 50 days? Give your answer and explain how you used the previous calculation to help you.
  - c) Rami has completed 4500 star jumps. How many days is this? Give your answer and explain how you used the previous calculation to help you.



 Use known facts to complete these calculations. Shade each answer on the maze to find the path from the money to the bank vault.

•••

		61	67	37	13.25	99	15.5	
		57	36	9.9	88	14.25	88	
60	59	58	14	15.75	26	55	5	
22	20	21	13.5	14.75	27	54	4	
9	8	6.75	29.5	28.5	28	53	118	
7	6	6.5	30	83	2.5	1.5	2	
57	12.25	7.5	11.5	117	33	.5		
8.4	69	2.25	20.25	99	77	E		
27	0 ÷ 10 =	=			× 40	= 270		
27	0 ÷ 20 =	=		130 = 6.5 ×				
27	0 ÷ 5 =			13 = 6.5 ×				
11	8 ÷ 2 =			× 4 = 118				
11	8 ÷	_ = 29.	5		= 29	.5 × 4		
11	8 ÷	_ = 14.	75	59 = × 4				

 Use known facts to complete these calculations. Shade each answer on the maze to find the path from the money to the bank vault.

•••

		61	67	37	13.25	99	15.5	
	B	57	36	9.9	88	14.25	88	
60	59	58	14	15.75	26	55	5	
22	20	21	13.5	14.75	27	54	4	
9	8	6.75	29.5	28.5	28	53	118	
7	6	6.5	30	83	2.5	1.5	2	
57	12.25	7.5	11.5	117	33			
8.4	69	2.25	20.25	99	77			
27	0 ÷ 10 =	=			× 40 = 270			
270 ÷ 20 =				130 = 6.5 ×				
270 ÷ 5 =				13 = 6.5 ×				
118 ÷ 2 =				× 4 = 118				
118 ÷ = 29.5				= 29.5 × 4				
118 ÷ = 14.75				59 = × 4				

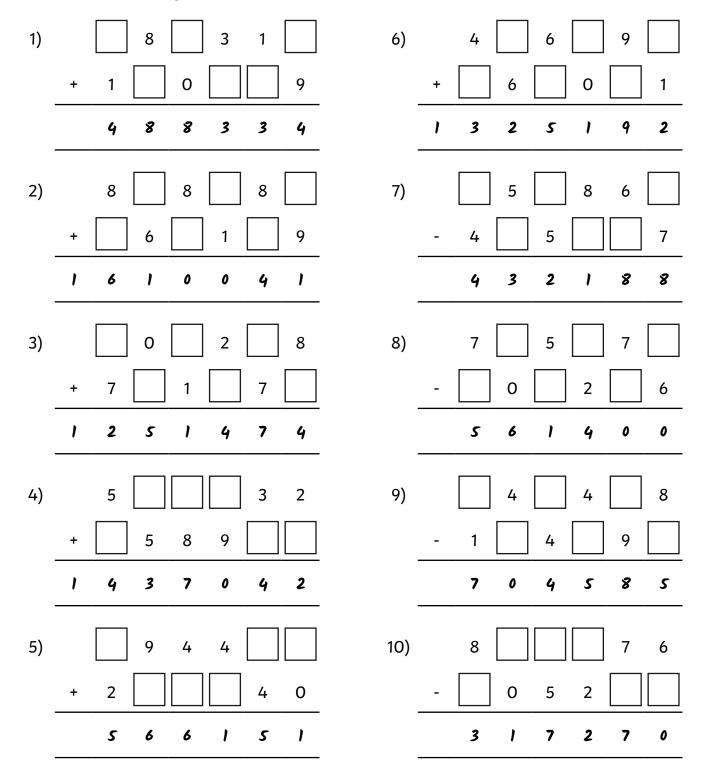




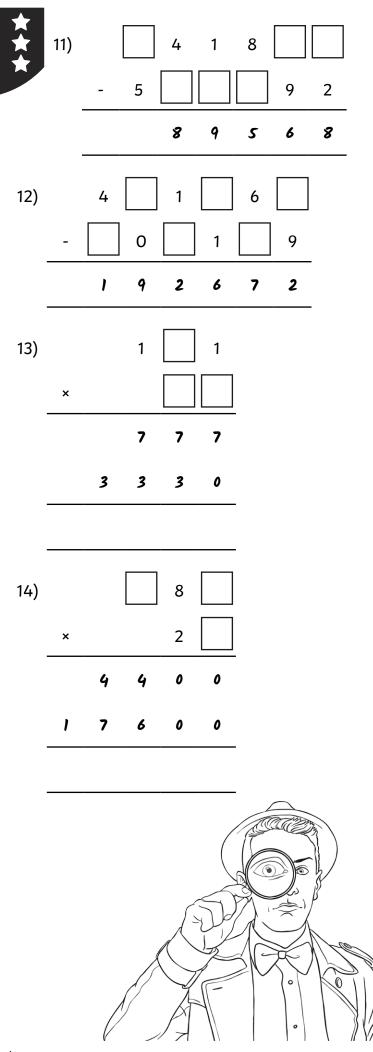
### Extra Challenge

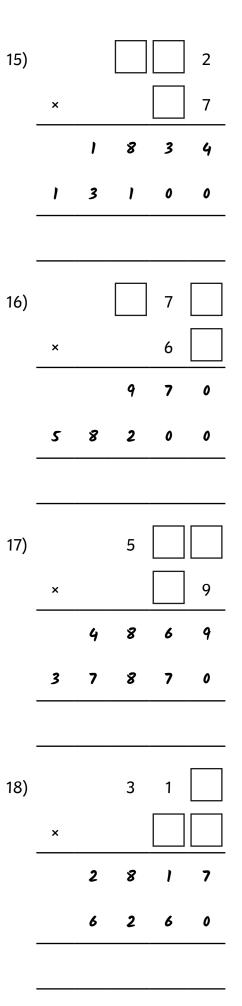
I can find missing numbers using the inverse.

Calculate the missing number in these calculations.









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#### Extra Challenge Answers

Question	Answer				
Calculate the missing number in these calculations.					
1	388 315 + 100 019 = 488 334				
2	848 882 + 761 159 = 1 610 041				
3	500 298 + 751 176 = 1 251 474				
4	578 132 + 858 910 = 1 437 042				
5	294 411 + 271 740 = 566 151				
6	456 191 + 869 001 = 1 325 192				
7	857865-425677=432188				
8	765 676 - 204 276 = 561 400				
9	849 478 - 144 893 = 704 585				
10	822 476 - 505 206 = 317 270				
11	641 860 - 552 292 = 89 568				
12	401 861 - 209 189 = 192 672				

13	111 × 37 = 4107
14	880 × 25 = 22 000
15	262 × 57 = 14 934
16	970 × 61 = 59 170
17	541 × 79 = 42 739
18	313 × 29 = 9077

