



THIRD SPACE
LEARNING

Week 3

Day 1

Possible methods to use:

Addition

$$\begin{array}{r} 3517 \\ + 396 \\ \hline 3913 \end{array}$$

Division

$$\begin{array}{r} 0663r5 \\ 8 \overline{) 5309} \end{array}$$

Fraction

Question:

$\frac{1}{2}$ of 16.

Step 1: $WN \div D$

$$16 \div 2 = 8$$

Step 2: Answer to step 1 $\times N$

$$8 \times 1 = 8$$

Therefore,

$$\frac{1}{2} \text{ of } 16 = 8$$



Week 3 – Day 1

THIRD SPACE
LEARNING

✓ Try mentally first

✓✓ Try a written method

$$A. 80 + 70 =$$

$$B. 60 \times 40 =$$

$$C. 528 \div 8 =$$

$$D. \frac{3}{5} \text{ of } 30 =$$



Week 3 – Day 1

THIRD SPACE
LEARNING

✓ Try mentally first

✓✓ Try a written method

$$E. 4,543 + 5,567 =$$

$$F. 70 \times 50 =$$

$$G. 657 \div 8 =$$

$$H. \frac{3}{5} \text{ of } 40 =$$

Reasoning

- Claire says 'When you multiply a number by 10 you just add a nought and when you multiply by 100 you add two noughts.'

Do you agree? Explain your answer.

- Apples weigh about 160g each. How many apples would you expect to get in a 2kg bag? Explain your reasoning.

- **$6 \times 7 = 42$**

How can you use this fact to solve the following calculations?

$$4200 \div 70 =$$

$$0.6 \times 0.7 =$$



Week 3 – Day 1 (ANSWERS)

Answers:

- A. 150
- B. 2,400
- C. 66
- D. 18
- E. 10,110
- F. 3,500
- G. 82 r1
- H. 24

Reasoning Answers:

1)

No as if we had 8.9×10 we would not just add a naught. We would have to move the place value by 10.

2)

$2\text{kg} = 2000\text{g}$ so $2000 \div 160 = 12.5$ apples.

3)

$4200 \div 70 = \rightarrow$ use the inverse of the original question and place value with multiples of 10.

$0.6 \times 0.7 = \rightarrow$ again use place value knowledge of dividing by 10.



THIRD SPACE
LEARNING

Week 3

Day 2

Possible methods to use:

Division

$$\begin{array}{r} 0663r5 \\ 8 \overline{) 530^2 9} \end{array}$$

Addition

$$\begin{array}{r} 3517 \\ + 396 \\ \hline 3913 \\ \small 1 \quad 1 \end{array}$$



Week 3 – Day 2

THIRD SPACE
LEARNING

✓ Try mentally first

✓✓ Try a written method

$$A. 80 \times 50 =$$

$$B. 600 + 800 =$$

$$C. 356 \div 8 =$$

$$D. 54 + 35 =$$



Week 3 – Day 2

THIRD SPACE
LEARNING

✓ Try mentally first

✓✓ Try a written method

$$E. 8,436 + 1,387 =$$

$$F. 700 + 800 =$$

$$G. 487 \div 8 =$$

$$H. 46 + 33 =$$

Problem Solving

- Here are the answers to the questions. Can you write three different questions that could make these numbers by multiplying and dividing by 10, 100 or 1000?
5890, 40, 67000, 2000
- David has £35700 in his bank. He divides the amount by 100 and takes that much money out of the bank. Using the money he has taken out he spends £268 on furniture for his new house. How much money does David have left from the money he took out? Show your working.



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Week 3 – Day 2 (ANSWERS)

Answers:

- A. 4,000
- B. 1,400
- C. 44 r 4
- D. 89
- E. 9,823
- F. 1,500
- G. 60 r 7
- H. 79

Problem Solving Answers:

1)

These can be any! Happy to check if you send via the Year 5 Email address.

2)

$$£35700 \div 100 = £357$$

$$£357 - £268 = £89$$



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Week 3

Day 3

Possible methods to use:

Subtraction

	8	0	8	6		
-		2	1	2	8	
	<hr/>					
	2	8	,	9	2	8

Fraction

Question:

$\frac{1}{2}$ of 16.

Step 1: $WN \div D$

$$16 \div 2 = 8$$

Step 2: Answer to step 1 $\times N$

$$8 \times 1 = 8$$

Therefore,

$$\frac{1}{2} \text{ of } 16 = 8$$



Week 3 – Day 3

THIRD SPACE
LEARNING

✓ Try mentally first

✓✓ Try a written method

$$\text{A. } \frac{2}{3} \text{ of } 99 =$$

$$\text{B. } 700 + ? = 1,300$$

$$\text{C. } 7,543 - 5,636 =$$

$$\text{D. } 765 \times 10 =$$



Week 3 – Day 3

THIRD SPACE
LEARNING

✓ Try mentally first

✓✓ Try a written method

$$E. 873 \times 8 =$$

$$F. 800 + ? = 1,500$$

$$G. 8,621 - 5,842 =$$

$$H. 864 \times 10 =$$



Week 3 – Day 3

Fluency

- Solve the calculations:

	3	4	6
×		2	7

	4	9	2	3
×		3	1	4

- Calculate:
 5612×4
 654×34
- Mo Farah runs 135 miles a week. How far does he run each year?



THIRD SPACE
LEARNING

Week 3 – Day 3

(ANSWERS)

Answers:

- A. 66
- B. 600
- C. 1,907
- D. 7,650
- E. 6,984
- F. 700
- G. 2,779
- H. 8640

Fluency Answers:

1)

$$346 \times 27 = 9,342$$

$$4923 \times 314 = 1,545,822$$

2)

$$5612 \times 4 = 22,448$$

$$654 \times 34 = 22,236$$

3)

$$135 \times 52 = 7,020 \text{ miles}$$



THIRD SPACE
LEARNING

Week 3

Day 4

Possible methods to use:

Division

$$\begin{array}{r} 0663r5 \\ 8 \overline{) 5309} \end{array}$$

Subtraction

$$\begin{array}{r} 28086 \\ - 2128 \\ \hline 28928 \end{array}$$



Week 3 – Day 4

THIRD SPACE
LEARNING

✓ Try mentally first

✓✓ Try a written method

$$A. 30 \times 70 =$$

$$B. ? + 7,643 = 9,876$$

$$C. 900 + ? = 1,700$$

$$D. 731 \div 8 =$$



Week 3 – Day 4

THIRD SPACE
LEARNING

✓ Try mentally first

✓✓ Try a written method

$$E. 678 + 400 =$$

$$F. ? + 8,647 = 15,814$$

$$G. 600 + ? = 1,400$$

$$H. 964 \div 8 =$$



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Week 3 – Day 4

Reasoning

- Spot the mistake and make a correction.

$$\begin{array}{r} 527 \\ \times 42 \\ \hline 10540 \\ 2018 \\ \hline 12648 \end{array}$$

- Laura thinks that a 4 should be placed in the empty box. Do you agree?

$$\begin{array}{r} \boxed{4} \boxed{7} \boxed{} \\ \times \boxed{2} \boxed{3} \\ \hline \boxed{1} \boxed{0} \boxed{9} \boxed{0} \boxed{2} \end{array}$$

- What goes in the missing box?

$$12 \boxed{} 2 + 6 = 212$$

$$14 \boxed{} 4 + 7 = 212$$

Prove your answer.



Week 3 – Day 4
(ANSWERS)

Reasoning Answers:

1)

The 0 on the spot has been put in the wrong place. Answer should be: 22,134

2)

Yes as $4 \times 3 = 12$, regroup the one. Then continue the pattern, it comes with the answer 10902

3)

$$1272 \div 6 = 212$$

$$1484 \div 7 = 212$$

As 12 divided by 6 is 2. Then the tens needs to be 1 multiple of 6 with a remainder of 1, to make the ones column 12. This divided by 6 = 2.

Answers:

A. 2,100

B. 2,233

C. 800

D. 91 r3

E. 1,078

F. 7,167

G. 800

H. 120 r 4



THIRD SPACE
LEARNING

Week 3

Day 5

Possible methods to use:

Multiplication

$$\begin{array}{r} 327 \\ \times 4 \\ \hline 1308 \\ 1 \end{array}$$

Division

$$\begin{array}{r} 0663 \text{ r } 5 \\ 8 \overline{) 5309} \end{array}$$

Fraction

Question:

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Therefore,

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Week 3 – Day 5

THIRD SPACE
LEARNING

✓ Try mentally first

✓✓ Try a written method

$$A. 70 \times 7 =$$

$$B. 6,657 \times 8 =$$

$$C. \frac{5}{6} \text{ of } 66 =$$

$$D. 60 \times 50 =$$



Week 3 – Day 5

THIRD SPACE
LEARNING

✓ Try mentally first

✓✓ Try a written method

$$E. 607 \div 8 =$$

$$F. 5,437 \times 8 =$$

$$G. \frac{5}{6} \text{ of } 72 =$$

$$H. 70 \times 80 =$$

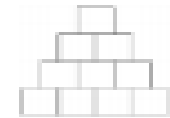


THIRD SPACE
LEARNING

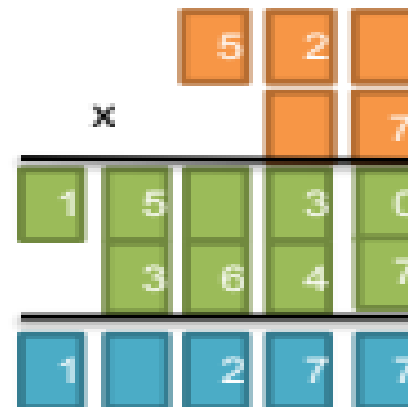
Week 3 – Day 5

Problem Solving

- Using the digits 1, 2, 3 and 4 in any order in the bottom row of the number pyramid, how many different totals can you make? What is the smallest/ largest total?



- Find the missing digits:



- Start with 0; choose a path through the maze. Which path has the highest/ lowest total?

S	+6	x5	x2	-4
+7	x8	+9	x7	x6
x5	+3	x4	+9	E

Week 3 – Day 5 (ANSWERS)

Answers:

- A. 490
- B. 53,256
- C. 55
- D. 3,000
- E. 75 r7
- F. 43,496
- G. 60
- H. 5,600

Problem Solving Answers:

1)

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2)

$$521 \times 37 = 15630 + 3647 = 19277$$

3)

These can be a wide variety! Happy to check if you send via the Year 5 Email address.