



THIRD SPACE
LEARNING

Week 5

Day 1

Possible methods to use:

Addition

	3	5	1	7
+		3	9	6
<hr/>				
	3	9	1	3
		1	1	

Multiplication

	3	2	7	
x			4	
<hr/>				
	1	3	0	8
		1	2	

Adding fractions:

1. Ensure the denominators are the same
2. Add the numerators
3. The denominator stays the same



Week 5 – Day 1

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✓ Try mentally first

✓✓ Try a written method

$$A. 6 \times 7 \times 2 =$$

$$B. 12,384 + 5,843 =$$

$$C. \frac{1}{3} + \frac{1}{3} =$$

$$D. 48 \div 10 =$$



Week 5 – Day 1

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✓ Try mentally first

✓✓ Try a written method

$$E. ? \div 6 = 896$$

$$F. 13,852 + 6,568 =$$

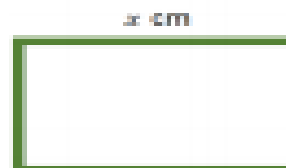
$$G. \frac{2}{6} + \frac{3}{6} =$$

$$H. 8.9 \div 10 =$$



Problem Solving

- The green rectangle has a perimeter of $\frac{11}{2}$ cm. The width is $\frac{3}{4}$ cm. Work out the value of x .



- Becki bought 5L of paint from the shop. What variations of paint could she have bought?

Colour	Amount in tin
Blue paint	$2\frac{1}{4}$ L
Red paint	$\frac{3}{4}$ L
White paint	$1\frac{1}{2}$ L
Yellow paint	1 L

- Five children are running a race. Sam finished 1m ahead of Sara. Tilly finished $\frac{1}{5}$ of a metre behind Sam and $\frac{1}{5}$ of a metre in front of Javid. Hardeep finished $\frac{7}{10}$ of a metre behind Sara. How far did Tilly finish in front of Hardeep?



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Week 5 – Day 1 (ANSWERS)

Answers:

- A. 84
- B. 18,227
- C. $\frac{2}{3}$
- D. 4.8
- E. 5,376
- F. 20,420
- G. $\frac{5}{6}$
- H. 0.89

Problem Solving Answers:

1)
 $11\frac{1}{2} = \frac{22}{4}$

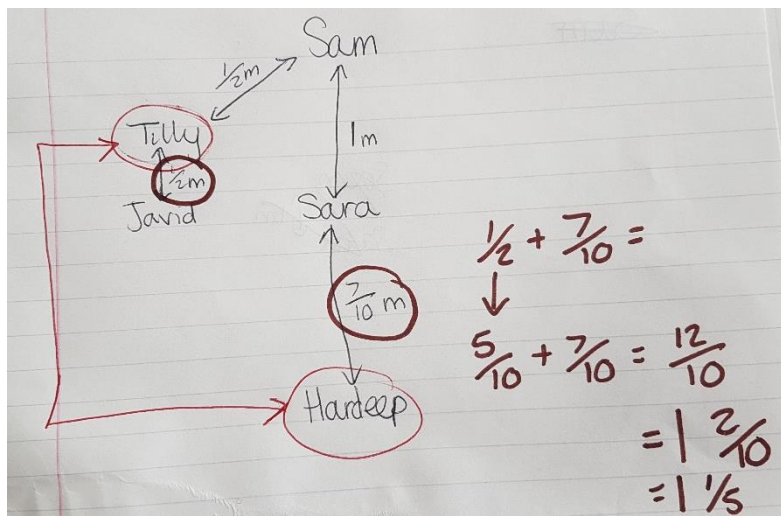
$$\frac{22}{4} - \frac{3}{4} - \frac{3}{4} = \frac{16}{4}$$

$$16\frac{1}{4} \div 2 = 8\frac{1}{4}$$

$$X = 8\frac{1}{4}$$

2)
There can be many. Please email your answers if you would like.

3)





THIRD SPACE
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Week 5

Day 2

Possible methods to use:

Adding

	3	5	1	7
+		3	9	6
<hr/>				
	3	9	1	3

Subtraction

	3	0	8	6	
-		2	1	2	8
<hr/>					
	2	8	9	2	8

Adding fractions:

1. Ensure the denominators are the same
2. Add the numerators
3. The denominator stays the same



Week 5 – Day 2

THIRD SPACE
LEARNING

✓ Try mentally first

✓✓ Try a written method

$$A. 93,214 - ? = 7,859$$

$$B. 8 \times 3 \times 3 =$$

$$C. 90 - 78 =$$

$$D. \frac{6}{7} + \frac{2}{7} =$$



Week 5 – Day 2

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✓ Try mentally first

✓✓ Try a written method

$$E. ? \div 7 = 529$$

$$F. 9 \times 4 \times 4 =$$

$$G. 80 - 68 =$$

$$H. \frac{6}{9} + \frac{3}{9} =$$



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Week 5 – Day 2

Fluency

- Complete the table:

Multiplication	Improper fraction	Mixed number
$3 \times \frac{4}{7}$	$\frac{12}{7}$	
$\frac{5}{8} \times 2$		
$6 \times \frac{3}{9}$		

- Use the diagram to find the answer.

$$3 \times \frac{2}{3}$$



- 5×2 sevenths = 10 sevenths = $\frac{10}{7}$

Use this method to solve these questions:

$$3 \times 4 \text{ eighths}$$

$$10 \text{ ninths} \times 6$$



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Week 5 – Day 2 (ANSWERS)

Answers:

- A. 85,355
- B. 72
- C. 12
- D. $\frac{8}{7}$ or $1 \frac{1}{7}$
- E. 3,703
- F. 144
- G. 12
- H. 1

Fluency Answers:

1)

Multiplication	Improper fraction	Mixed number
$3 \times \frac{4}{7}$	$\frac{12}{7}$	1 and $\frac{5}{7}$
$\frac{5}{8} \times 2$	$\frac{10}{8}$	1 and $\frac{2}{8}$
$6 \times \frac{3}{9}$	$\frac{18}{9}$	2

2)

$$6/3 = 2$$

3)

$$12 \text{ eighths} = 12/8 = 1 \text{ and } 4/8 = 1 \text{ and } \frac{1}{2}$$

$$60 \text{ ninths} = 60/9 = 6 \text{ and } 6/9 = 6 \text{ and } \frac{2}{3}$$



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Week 5

Day 3



Week 5 – Day 3

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✓ Try mentally first

✓✓ Try a written method

$$A. \frac{3}{5} + \frac{4}{5} + \frac{2}{5} =$$

$$B. 3 \times 7 \times 2 =$$

$$C. 857 + 14,894 =$$

$$D. 600 + 500 + 100 =$$



Week 5 – Day 3

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✓ Try mentally first

✓✓ Try a written method

$$E. 759 \times 7 =$$

$$F. 5 \times 8 \times 3 =$$

$$G. 679 + 12,754 =$$

$$H. 500 + 800 + 200 =$$



Reasoning

- Does $\frac{13}{5} \times 8$ give the same answer as $13 \times \frac{8}{5}$?

Show your working and explain your answer.

- Write three more number sentences with a fraction and a whole number that give the same answer as $\frac{3}{4} \times 5$

- Multiply these mixed numbers by 3 and place them in order from the biggest to smallest

$$2\frac{3}{5}, \quad 2\frac{6}{8}, \quad 2\frac{3}{7}, \quad 2\frac{1}{6}$$



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Week 5 – Day 3 (ANSWERS)

Answers:

- A. $9/5$ or 1 whole and $4/5$
- B. 42
- C. 15,751
- D. 1,200
- E. 5,313
- F. 120
- G. 13,433
- H. 1,500

Reasoning Answers:

1)

$$13/5 \times 8 = 104/5$$

$$13 \times 8/5 = 104/5$$

2)

There can be many. Please feel free to email over.

3)

$$2 \text{ and } 3/5 \times 3 = 13/5 \times 3/1 = 39/5 = 7 \text{ and } 4/5$$

$$2 \text{ and } 6/8 \times 3 = 22/8 \times 3/1 = 66/8 = 8 \text{ and } 4/8 = 8 \text{ and } 1/2$$

$$2 \text{ and } 3/7 \times 3 = 17/7 \times 3/1 = 51/7 = 7 \text{ and } 2/7$$

$$2 \text{ and } 1/6 \times 3 = 13/6 \times 3/1 = 39/6 = 6 \text{ and } 3/6$$

Order = 2 and $6/8$, 2 and $3/5$, 2 and $3/7$, 2 and $1/6$



THIRD SPACE
LEARNING

Week 5

Day 4

Possible methods to use:

Subtraction

	2	1	0	2	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 x N

$$8 \times 1 = 8$$

Therefore,

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



Week 5 – Day 4

THIRD SPACE
LEARNING

✓ Try mentally first

✓✓ Try a written method

$$\text{A. } \frac{3}{5} \text{ of } 25 =$$

$$\text{B. } 78 + 50 =$$

$$\text{C. } ? \div 8 = 496$$

$$\text{D. } 5 \times 6 \times 5 =$$



Week 5 – Day 4

THIRD SPACE
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✓ Try mentally first

✓✓ Try a written method

$$E. 600 - 299 =$$

$$F. 95 + 60 =$$

$$G. ? \div 8 = 654$$

$$H. 6 \times 8 \times 6 =$$



Problem Solving

- There are 9 lamp posts on a road. There is $3\frac{2}{7}$ of a metre between each lamp post. What is the distance between the first and last lamp post?
- Use the digit cards to complete the multiplication.

You can only use the digits more than once.

1	2	3	4	5	6
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Hint: Think about equivalent fractions

- Jenny went for a run on Saturday. On Sunday she ran twice as far as on Saturday. On Monday she ran three times as far on Saturday. If she ran $3\frac{2}{5}$ of a mile on Saturday, how far did she run over the 3 days?



Week 5 – Day 4 (ANSWERS)

Answers:

- A. 15
- B. 128
- C. 3,698
- D. 150
- E. 301
- F. 155
- G. 5,232
- H. 288

Problem Solving Answers:

1)

$9 \times 3 \text{ and } \frac{2}{7} = \frac{9}{1} \times \frac{23}{7} = \frac{207}{7} = 29$
and half metres.

2)

Many answers. Please feel free to send via email.

3)

Saturday = 3 and $\frac{2}{5}$

Sunday = 6 and $\frac{4}{5}$

Monday = 10 and $\frac{1}{5}$

Total = 20 and $\frac{2}{5}$



THIRD SPACE
LEARNING

Week 5

Day 5

Possible methods to use:

Subtraction

$$\begin{array}{r} \cancel{30} \cancel{0} \cancel{8} \cancel{6} \\ - \quad 2128 \\ \hline 28928 \end{array}$$

Multiplication

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

Addition

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

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 5 – Day 5

THIRD SPACE
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✓ Try mentally first

✓✓ Try a written method

$$A. 3 \times 0 \times 7 =$$

$$B. 294 \times 6 =$$

$$C. 80 - 48 =$$

$$D. \frac{5}{6} \text{ of } 42 =$$



Week 5 – Day 5

THIRD SPACE
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✓ Try mentally first

✓✓ Try a written method

$$E. ? - 7,876 = 7,997$$

$$F. 678 \times 6 =$$

$$G. 70 - 64 =$$

$$H. \frac{6}{7} \text{ of } 42 =$$

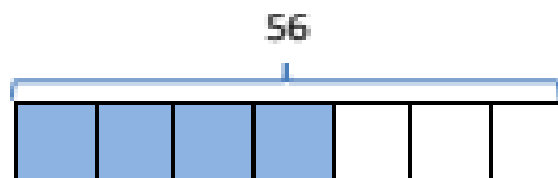


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Week 5 – Day 5

Fluency

- There are 56 people playing rounders.
 $\frac{4}{7}$ of the players are girls.
How many girls are playing?
Use the bar model to help you find your answer.



- In a class of 32 children, $\frac{3}{4}$ of them voted for maths as their favourite subject.
How many children voted for something else?
Give your answer as a whole number.
- 48 people work at an office.
On Monday, $\frac{2}{3}$ of the people walked to work.
On Tuesday $\frac{5}{8}$ of them walked to work.
How many more people walked to work on Monday?



THIRD SPACE
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Week 5 – Day 5 (ANSWERS)

Answers:

- A. 0
- B. 1,764
- C. 32
- D. 35
- E. 15,873
- F. 4,068
- G. 6
- H. 36

Fluency Answers:

1)

$$56 \div 7 \times 4 = 32 \text{ girls}$$

2)

$$32 \div 4 \times 3 = 24$$

$32 - 24 = 8$ children voted
for something else.

3)

Monday 32 people walked.
Tuesday 30 people walked.

2 more people!