1	2 3 4 5 6 7 <sup>8 9</sup> 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	30
101	Using known facts to help with divisions	) II
98 99	Work out $20 \times 6$ , $30 \times 6$ , $40 \times 6$ , $20 \times 7$ , $30 \times 7$ , $40 \times 7$ , $20 \times 8$ , $30 \times 8$ and $40 \times 8$ .	<sup>32</sup> 33
9 <sub>6</sub> 97	Use these facts to work out the exact answer to these divisions:	<b>3</b> 4 35
55	1. 129÷6	36
94	2. 147÷7	37
<b>3</b> 3	3. 164÷8	38
92	4. 122÷6	<b>3</b> 9
91	5. 162 ÷ 8	<del>8</del>
90	6. 166÷8	41
89	7. 183÷6	P
88	8. 224÷7	43
6	9. 244÷8	AA
90 20	10. 255 ÷ 6	<b>4</b> 5
5	11. 287÷7	46
80	12. 332÷8	47
3 84		48
°0'	Now make up your own divisions that you can work out using the multiplication facts.	49
8182	© Hamilton Trust	50
08	25 23 24 22 26 21 28 23 60 61 65 63 64 62 69 69 69 68 63 20 17 15 13 14 22 26 11 28 13	TS

1	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 5	30
100	Using known facts to help with divisions	31
98 99	Work out 10 x 6, 20 × 6, 30 × 6, 10 x 7, 20 × 7, 30 × 7, 10 x 8, 20 × 8, 30 × 8.	32 33
96 97	Use these facts to work out the exact answer to these divisions:	<b>3</b> 4 35
4 <u>9</u> 5	1. 69÷6	36 37
93 9	2. 129÷6 3. 77÷7	38
1 92	4. 147÷7	<u>39</u> 40
90 9	5. $88 \div 8$ 6. $164 \div 8$	41 A
<mark>88</mark> 89	7. 122÷6	<b>1</b> 43
81	8. $162 \div 8$ 9. $145 \div 6$	AA 45
85 8	10. 183 ÷ 6	46
3 84		47 48
8182 8	Now make up your own divisions that you can work out using the multiplication facts.	49 5C
08	62 83 29 29 29 29 20 01 05 03 04 02 05 03 04 02 09 09 09 00 17 17 13 14 15 16 16 16	IS

1	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 5	30
100	Using known facts to help with divisions	31
98 99	Work out $20 \times 6$ , $30 \times 6$ , $40 \times 6$ , $20 \times 7$ , $30 \times 7$ , $40 \times 7$ , $20 \times 8$ , $30 \times 8$ and $40 \times 8$ .	32 33
96 97	Use these facts to work out the exact answer to these divisions:	<b>3</b> 4 35
94 95	1. 135 ÷ 6 2. 154 ÷ 7	36 37
<del>3</del> 3	3. 172÷8	86
91 92	4. $128 \div 6$ 5. $170 \div 8$	39 <b>40</b>
90	6. 174÷8 7 195÷6	41 A2
<b>88</b> 89	8. 238÷7	43
8 <mark>1</mark>	9. $270 \div 8$ 10. $261 \div 6$	<b>A</b> A 45
85 8	11. $294 \div 7$ 12. $332 \div 8$	46
83 84	Now make up your own divisions that you can work out using the multiplication facts	17 48
81 <sup>82</sup>	Remilton Trust	49 50
08	25 23 24 22 29 21 28 23 60 61 65 63 64 65 66 67 68 69 70 17 12 13 14 75 76 11 78 19	IS

1.	A tea shop has 49 boxes of herbal tea. They come in boxes of 20 tea bags. How many tea bags do they have?	5. A family of 6 go out for a birthday meal. The bill comes to £75. How much does the meal cost per person?
2.	The tea shop has 92 slices of cake left. If a cake is cut into 8 slices how many cakes is this?	6. A bus route is 38 miles. If the driver drives it 15 times in a day, how many miles is that?
3.	32 children in Year 5 have each brought 20p to buy a snack at break time. How much money have they brought in altogether?	<ol> <li>A school has 217 children equally split between 7 classes. How many children are in each class?</li> </ol>
4.	How many weeks are in 154 days?	8. A top distance runner takes an average time of 5 minutes to run a mile. How long will it take to run 26 miles?

1.	A tea shop has 23 boxes of herbal tea. They come in boxes of 20 tea bags. How many tea bags do they have?	<ol> <li>A family of 6 go out for a birthday meal. The bill comes to £63. How much does the meal cost per person?</li> </ol>
2.	The tea shop has 84 slices of cake left. If a cake is cut into 8 slices how many cakes is this?	6. A bus route is 17 miles. If the driver drives it 20 times in a day, how many miles is that?
3.	16 children in Year 5 have each brought 20p to buy a snack at break time. How much money have they brought in altogether?	<ol> <li>A school has 147 children equally split between 7 classes. How many children are in each class?</li> </ol>
4.	How many weeks are in 91 days?	8. A top distance runner takes an average time of 5 minutes to run a mile. How long will it take to run 14 miles?

1.	A tea shop has 59 boxes of herbal tea. They come in boxes of 20 tea bags. How many tea bags do they have?	<ol> <li>A family of 6 go out for a birthday meal. The bill comes to £81. How much does the meal cost per person?</li> </ol>
2.	The tea shop has 90 slices of cake left. If a cake is cut into 8 slices how many cakes is this?	6. A bus route is 32 miles. If the driver drives it 19 times in a day, how many miles is that?
3.	37 children in Year 5 have each brought 20p to buy a snack at break time. How much money have they brought in altogether?	<ol> <li>A school has 203 children equally split between 7 classes. How many children are in each class?</li> </ol>
4.	How many weeks are in 224 days?	8. A top distance runner takes an average time of 5 minutes to run a mile. How long will it take to run 27 miles?



		Equivalent	percentages		
	Children were asked to vote for cycling or football as their favourite weekend	g, swimming activity			
	Fraction	Percentage	A	ll children	
1	/ <sub>2</sub> children prefer swimming		½ ?%	½ ?%	? chose
1	/ <sub>4</sub> of children prefer cycling		swimming	cycling	football
Ţ	The rest prefer football				
L					
L	Children were asked to vote for dog or rabbits as their ideal pet	s, cats	Children were asked to ve or apples as their favouri	ote for oranges, ba te fruit	nanas
L	Children were asked to vote for dog or rabbits as their ideal pet <b>Fraction</b>	s, cats Percentage	Children were asked to vo or apples as their favouri <b>Fraction</b>	ote for oranges, ba te fruit F	nanas Percentage
L	Children were asked to vote for dog or rabbits as their ideal pet <b>Fraction</b> <sup>1</sup> / <sub>2</sub> prefer dogs	s, cats Percentage	Children were asked to vo or apples as their favouri <b>Fraction</b> 4/ <sub>10</sub> children prefer banar	ote for oranges, ba te fruit P nas	nanas Percentage
L	Children were asked to vote for dog or rabbits as their ideal pet <b>Fraction</b> <sup>1</sup> / <sub>2</sub> prefer dogs <sup>3</sup> / <sub>10</sub> prefer cats	es, cats Percentage	Children were asked to version or apples as their favouring <b>Fraction</b> $4/_{10}$ children prefer banar $3/_{10}$ of children prefer app	ote for oranges, ba te fruit P nas ples	nanas Percentage
L	Children were asked to vote for dog or rabbits as their ideal pet <b>Fraction</b> $1/_2$ prefer dogs $3/_{10}$ prefer cats The rest prefer rabbits	Percentage	Children were asked to voor apples as their favourie <b>Fraction</b> 4/ <sub>10</sub> children prefer banar 3/ <sub>10</sub> of children prefer app The rest prefer oranges	ote for oranges, ba te fruit P nas ples	nanas Percentage

		Equivalent	percentages	
Clor	nildren were asked to vote for cycling r football as their favourite weekend	, swimming activity		
	Fraction	Percentage		
1/	2 children prefer swimming			
3/	10 of children prefer cycling		Children were asked to vote for or or apples as their favourite fruit	ranges, bananas
Tł	ne rest prefer football		Fraction	Percentage
	·		<sup>2</sup> / <sub>5</sub> children prefer bananas	
	Children were asked to vote for dogs or rabbits as their ideal pet	s, cats	$3/_{10}$ of children prefer apples	
	Fraction	Percentage	The rest prefer oranges	
	<sup>1</sup> / <sub>2</sub> prefer dogs			
	<sup>1</sup> / <sub>5</sub> prefer cats			
	The rest prefer rabbits			
© Ha	amilton Trust			Y5 Sum Week 3 Day 4 N

1	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	30
001	Comparing percentages	
66		32
<b>3</b> 8	The following new woodlands have been planted:	3
97		34
96	Burley Common	35
	100  trees	36
<u>1</u> 6	50% 0dK, 20% dSH, 15% DEECH, 15% WIIIOW	37
0	Merttens Meadow	38
6	300 trees	6
92	20% oak, 20% hazel, 40% willow, 20% beech	<b>6</b>
91		δ
90	Chidgey Common	41
8	200 trees	ち
<b>8</b> 8	40% oak, 30% beech, 10% ash, 20% sweet chestnut	43
<b>1</b> 2		44
9	Holes Hollow	<del>5</del>
<u>د</u>	200 trees	46
ø	25% oak, 10% hazel, 20% willow, 15% beech, 30% ash	4
84	Mark out which wood has the most of each tree	48
8° 8		4
182		95
<i>6</i> 0	© Hamilton Trust Y5 Sum Week 3 Day 5 E	) ö
08	6L or IT at 25 he ET CT IT 05 69 69 52 53 59 50 Ea ca 10 00 pa 82 12 32 52 42 E2 S2	15

1	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	30
001	Comparing percentages	) 22
66		32
<b>3</b> 8	The following new woodlands have been planted:	ယ္သ
6		34
96	Burley Common	35
5 S	100 litees 50% ook 20% och 15% booch 15% willow	36
9	5070 Uak, 2070 asil, 1570 DEECH, 1570 WIIIOW	37
5) 00	Merttens Meadow	38
ର	150 trees	ω
92	20% oak, 20% hazel, 40% willow, 20% beech	9
91		Ō
90	Chidgey Common	E A
8	200 trees	4 G
<b>%</b>	40% oak, 30% beech, 10% ash, 20% sweet chestnut	43
18		<b>4A</b>
86	Holes Hollow	<b>4</b> 5
5	120 trees	46
∞	25% Oak, 10% hazel, 15% Willow, 30% beech, 20% ash	47
84	Work out which wood has the most of each tree	48
ő		4
<b>3</b> 1 82		у У
80	W Hamilton Irust       Y5 Sum Week 3 Day 5 M         61       84       11       94       64       84       10       65       64       84       10       65       64       84       10       1	
08	25 23 24 22 29 2 <sub>1</sub> 28 <sup>2</sup> 3 90 91 95 93 94 9 <sub>2</sub> <sup>99</sup> 92 93 98 93 <u>20 17</u> 17 13 <sup>14</sup> 22 19 18 13	ŢŻ

## Maths Answers - Summer Year 5

Week 3:

Using known facts to help with divisions

20 x 6 = 120 30 x 6 = 180 40 x 6 = 240 20 x 7 = 140 30 x 7 = 210 40 x 7 = 280 20 x 8 = 160 30 x 8 = 240 40 x 8 = 320 1. 129  $\div$  6 = 21 3/6 or 21 1/2 2. 147  $\div$  7 = 21 3. 164  $\div$  8 = 20 4/8 or 20 1/2 4. 122  $\div$  6 = 20 2/6 or 20 1/3 5. 162  $\div$  8 = 20 2/8 or 20 1/4 6. 166  $\div$  8 = 20 6/8 or 20 3/4 7. 183  $\div$  6 = 30 3/6 or 30 1/2 8. 224  $\div$  7 = 32 9. 244  $\div$  8 = 30 4/8 or 30 1/2 10. 255  $\div$  6 = 42 3/6 or 42 1/2 11. 287  $\div$  7 = 41 12. 332  $\div$  8 = 41 4/8 or 41 1/2

Using known facts to help with divisions (E)

10 x 6 = **60** 20 x 6 = **120** 30 x 6 = **180** 10 x 7 = **70** 20 x 7 = **140** 30 x 7 = **210** 10 x 8 = **80** 20 x 8 = **160** 30 x 8 = **240** 1. 69 ÷ 6 = **11 3/6** or **11 1/2** 2. 129 ÷ 6 = 21 3/6 or 21 1/2 3. 77 ÷ 7 = **11** 4. 147 ÷ 7 = **21** 5.88÷8=11 6. 164 ÷ 8 = 20 4/8 or 20 1/2 7. 122 ÷ 6 = 20 2/6 or 20 1/3 8. 162 ÷ 8 = 20 2/8 or 20 1/4 9. 145 ÷ 6 = 24 1/6 10. 183 ÷ 6 = **30 3/6** or **30 1/2** 

Using known facts to help with divisions (H)

20 x 6 = <b>120</b>	30 x 6 = <b>180</b>	40 x 6 = <b>240</b>
20 x 7 = <b>140</b>	30 x 7 = <b>210</b>	40 x 7 = <b>280</b>
20 x 8 = <b>160</b>	30 x 8 = <b>240</b>	40 x 8 = <b>320</b>

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1.  $135 \div 6 = 22 3/6$  or 22 1/22.  $154 \div 7 = 22$ 3.  $172 \div 8 = 21 4/8$  or 21 1/24.  $128 \div 6 = 21 2/6$  or 21 1/35.  $170 \div 8 = 21 2/8$  or 21 1/46.  $174 \div 8 = 21 6/8$  or 21 3/47.  $195 \div 6 = 32 3/6$  or 32 1/28.  $238 \div 7 = 34$ 9.  $270 \div 8 = 33 6/8$  or 33 3/410.  $261 \div 6 = 43 3/6$  or 43 1/211.  $294 \div 7 = 42$ 12.  $332 \div 8 = 41 4/8$  or 41 1/2

## Multiplication and division word problems (M)

1. 49 x 20 = <b>980</b>	The tea shop has <b>980</b> tea bags.
2. 92 ÷ 8 = <b>11 4/8</b>	The tea shop has <b>11 ½</b> cakes left.
3. 32 x 20p = 640p or <b>£6.40</b>	The children have brought in <b>£6.40</b> altogether.
4. 154 ÷ 7 = <b>22</b>	There are <b>22</b> weeks in 154 days.
5. £75 ÷ 6 = <b>£12.50</b>	The meal cost <b>£12.50</b> per person.
6. 38 x 15 = <b>570</b>	The driver drives <b>570</b> miles in a day.
7. 217 ÷ 7 = <b>31</b>	There are <b>31</b> children in each class.
8. 26 x 5min = 130min	It will take the runner 2 hours and 10 minutes.

## Multiplication and division word problems (E)

1. 23 x 20 = <b>460</b>	The tea shop has <b>460</b> tea bags.
2. 84 ÷ 8 = <b>10 4/8</b>	The tea shop has <b>10 ½</b> cakes left.
3. 16 x 20p = 320p or <b>£3.20</b>	The children have brought in £3.20 altogether
4. 91 ÷ 7 = <b>13</b>	There are <b>13</b> weeks in 91 days.
5. £63 ÷ 6 = <b>£10.50</b>	The meal cost <b>£10.50</b> per person.
6. 17 x 20 = <b>340</b>	The driver drives <b>340</b> miles in a day.
7. 147 ÷ 7 = <b>21</b>	There are <b>21</b> children in each class.
8. 14 x 5min = 70min	It will take the runner <b>1 hour and 10 minutes</b> .

#### Multiplication and division word problems (H)

1. 59 x 20 = <b>1180</b>	The tea shop has <b>1180</b> tea bags.
2. 90 ÷ 8 = <b>11 2/8</b>	The tea shop has <b>11 1/4</b> cakes left.
3. 37 x 20p = 740p or <b>£7.40</b>	The children have brought in <b>£7.40</b> altogether.
4. 224 ÷ 7 = <b>32</b>	There are <b>32</b> weeks in 224 days.
5. £81 ÷ 6 = <b>£13.50</b>	The meal cost <b>£13.50</b> per person.
6. 32 x 19 = <b>608</b>	The driver drives 608 miles in a day.
7. 203 ÷ 7 = <b>29</b>	There are <b>29</b> children in each class.
8. 27 x 5min = 135min	It will take the runner 2 hours and 15 minutes.

## **Percentages**

20% = 0.2 = 1/5 3% = 0.03 = 3/100 10% = 0.1 = 1/10  $50\% = 0.5 = \frac{1}{2}$   $25\% = 0.25 = \frac{1}{4}$   $75\% = 0.75 = \frac{3}{4}$  99% = 0.99 = 99/100 15% = 0.15 = 3/20 46% = 0.46 = 23/5080% = 0.8 = 4/5

# Equivalent percentages (E)

Children were asked to vote for cycling, swimming		
or football as their favourite weekend activity		
Fraction	Percentage	
½ children prefer swimming	50%	
¼ of children prefer cycling	25%	
The rest prefer football	25%	

Children were asked to vote for oranges, bananas or		
apples as their favourite fruit		
Fraction	Percentage	
4/10 children prefer bananas	40%	
3/10 of children prefer apples	30%	
The rest prefer oranges	30%	

Children were asked to vote for dogs, cats or rabbits	
as their ideal pet	
Fraction	Percentage
½ prefer dogs	50%
3/10 prefer cats	30%
The rest prefer rabbits	20%

## Equivalent percentages (M)

Children were asked to vote for cycling, swimming	
or football as their favourite weekend activity	
Percentage	
50%	
30%	
20%	

Children were asked to vote for oranges, bananas or apples as their favourite fruit

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Year 5 Summer Maths Answers

Fraction	Percentage
2/5 children prefer bananas	40%
3/10 of children prefer apples	30%
The rest prefer oranges	30%

Children were asked to vote for dogs, cats or rabbits		
as their ideal pet		
Fraction	Percentage	
½ prefer dogs	50%	
1/5 prefer cats	20%	
The rest prefer rabbits	30%	

Comparing percentages (E)

Burley Common has: 50 oak, 20 ash, 15 beech and 15 willow.

Merttens Meadow has: 60 oak, **60 hazel**, **120 willow** and **60 beech**.

Chidgey Common has: **80 oak, 60 beech**, 20 ash and **40 sweet chestnut**.

Holes Hollow has: 50 oak, 20 hazel, 40 willow, 30 beech and **60 ash**.

Comparing percentages (M)

Burley Common has: 50 oak, 20 ash, 15 beech and 15 willow.

Merttens Meadow has: 30 oak, **30 hazel**, **60 willow** and 30 beech.

Chidgey Common has: **80 oak, 60 beech**, 20 ash and **40 sweet chestnut**.

Holes Hollow has: 30 oak, 12 hazel, 18 willow, 36 beech and **24 ash**.

Year 5 Summer Maths Answers