Answers for Y6 Maths (wb 08.06.20)

Morning Mental Maths

	Monday	Tuesday	Wednesday	Thursday	Friday
1.	22.95	11. 25.75	21. 62.21	31. 144.75	41. 201.67
2.	7	12. 6	22. 5	32. 4	42. 8
3.	550	13. 62	23. 9400	33. 46	43. 30
4.	5/10	14. 3/10	24. 0.85	34. 1/5	44. 0.9
5.	10	15. 7	25. 60	35. 16	45. 14
6.	65/100 or 13/20	16. 21/100	26. 2/100 or 1/50	36. 89/100	46. 7/100
7.	£7.63	17. £3.36	27. £19.17	37. £2.00	47. £5.14
8.	-3°C	184°C	285°C	387°C	4810°C
9.	39	19. 66	29. 53	39. 247	49. 253
10.	19	20. 23	30. 44	40. 50	50. 36

Monday

Answers provided at end of download

Tuesday

1

Complete the calculations and sentences.

Use place value counters to help you.

Th	Н	Т	0	Tth	Hth

When the number is multiplied by 10 the counters move place to the left.

When the number is multiplied by 100 the counters move 2 places to the left.

When the number is multiplied by 1,000 the counters move 3 places to the left.

Complete the diagram.



a) Draw counters on the place value charts to represent each calculation.

 4.4×1

Th	Н	Т	0	Tth	Hth
			00	000	

4.4×10

Th	Н	Т	0	Tth	Hth
		-	000	000	

4.4×100

Th	Н	Т	0	Tth	Hth
	-		000	000	

$$4.4 \times 1,000$$

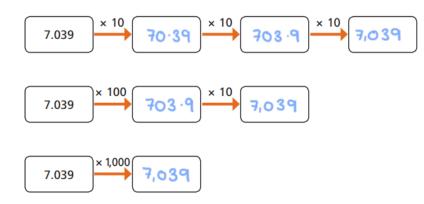
Th	Н	Т	0	Tth	Hth
,_			000	00	
			0	00	

b) Complete the calculations.

What do you notice?

Complete the calculations.

5 Complete the diagrams.



What do you notice? Why does this happen?

6 Write >, < or = to compare the number sentences.

Complete the calculations and sentences.

Use place value counters to help you.

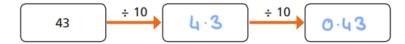
Th	Н	Т	0	Tth	Hth
			'		

When the number is divided by 10 the counters move place to the right.

When the number is divided by 100 the counters move 2 places to the right.

When the number is divided by 1,000 the counters move places to the right.

Complete the diagram.



- 3
- a) Draw counters to represent the calculations.

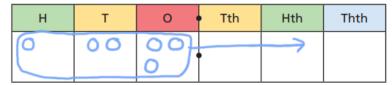
 $123 \div 1$

Н	Т	0	Tth	Hth	Thth
0	00	00			
		0			

123 ÷ 10

Н	Т	0	Tth	Hth	Thth
0	00	00	\rightarrow		

 $123 \div 100$



123 ÷ 1,000

Н	Т	0	Tth	Hth	Thth
0	0	00			7

b) Complete the calculations.

What do you notice?

Complete the calculations.

Complete the diagrams.



What do you notice? Why does this happen?



Dexter is solving the calculation 5,400 ÷ 100



I think the answer is 54.00

Is Dexter correct? 4es_

Explain your reasoning.

54.00 is the same as 54

Wednesday

1) Use place value counters to solve the calculations.

a)
$$3.2 \times 3 = 9.6$$

Ones	Tenths
	0.1 0.1
	0.1 0.1
	0.1 0.1

b)
$$4.6 \times 2 = \boxed{9 \cdot 2}$$

Ones	Tenths
	0.1 0.1 0.1 0.1
'	0.1
0000	00 00 00 00
	0.1

2 Solve the multiplication. Draw your answer.

Tens	Ones	Tenths
000	000	0000

3 Nijah uses long multiplication to solve 3.72 × 3

	3 ·	7	2	
×			3	
	0 .	0	6	
	2 ·	1	0	
	۹.	0	0	
1	1 -	1	6	

b)

Use long multiplication to work out the calculations.

. "

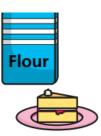
	4	8	6	
×			4	
	0 •	2	4	
	3.	2	0	
1	6.	0	0	
١	9.	L	l.	

- 2·0 9 × 6 0·5 4 0·0 0 1 2·0 0
- Work out the multiplications.

c)
$$6 \times 9.1 = 54.6$$

5 0.25 kg of flour is needed to make one cake.

How much flour is needed to make four cakes?





6 Work out the multiplications.

a)
$$7.2 \times 2 = 14.4$$

7 Amir is solving 3.4 × 4

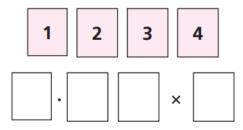


To solve this, I
did 34 × 4, which was 136
Then I multiplied my answer
by 10 to get an answer
of 1,360

Do you agree with Amir? No Explain why.

34 is ten times bigger than 3.4 so he should have divided by 10 to get 13.6

8 Use the digits 1, 2, 3 and 4 once each to create a calculation..



a) How many different products can you make?

Various arrawes

b) What is the greatest possible product?

12.84

c) What is the smallest possible product?

<u></u>્રારુપ

d) What is the product closest to 12?

12.36

Thursday

1 Use place value counters to work out the divisions.

a)
$$8.4 \div 4 = 2 \cdot 1$$

Ones	Tenths
	0.1 0.1

Tens	Ones	Tenths
10		0.1 0.1

2 Work out the division. Draw your answer.

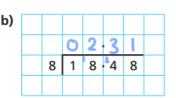
Tens	Ones	Tenths
Ø → →	0,0,0,0	0 0 0 0 0

Brett uses short division to work out $13.2 \div 6$

	0	2 -	2	
6	1	¹ 3 ·	¹ 2	

Use short division to work out the calculations.



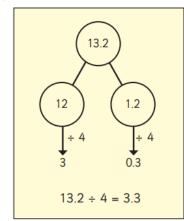


4 Work out the divisions.

a)
$$25.6 \div 8 = 3 \cdot 2$$

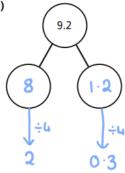
c)
$$18.48 \div 6 = 3.08$$

5 Esther solves 13.2 ÷ 4 by partitioning 13.2 into two numbers that are easier to divide.

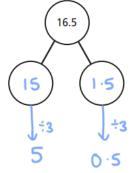


Use Esther's method to complete the part-whole model and calculation.





b)



6 Work out the divisions.

7 Fill in the missing numbers.

8 Complete the calculation.

How many different solutions can you find?

Friday

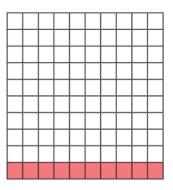
- Complete the sentences.

The whole has been divided into | equal parts.

Each part is worth 0:1

This is equivalent to $\frac{1}{10}$

b)



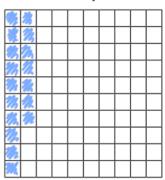
The whole has been divided into 100 equal parts.

Each part is worth 0.01

parts out of 100 are shaded.

This is equivalent to $\frac{10}{100}$ or $\frac{1}{10}$

- 2
- a) Shade 0.17 of the hundred square.



Complete the sentence.

parts out of 100 are shaded.

Write 0.17 as a fraction.

b) Shade 0.2 of the hundred square.

粉熱				
外加				
物物				
1/2 1/2				
1/2				
12/2				
The The				
1/2 1/2				
1/2 1/2				
物物				

Complete the sentence.

20 parts out of 100 are shaded.

Write 0.2 as a fraction in its simplest form.

3

0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
0.	.2	0.	.2	0.	.2	0.	.2	0.	.2

Use the bar models to fill in the missing numbers.

$$0.2 = \frac{2}{10} = \frac{1}{5}$$

$$0.4 = \frac{1}{10} = \frac{2}{5}$$

$$\boxed{\frac{6}{8}} = \frac{8}{10} = \frac{4}{5}$$

4 Fill in the missing numbers.

a)
$$0.54 = \frac{54}{100} = \frac{27}{50}$$

b)
$$0.6 = \frac{6}{10} = \frac{3}{5}$$

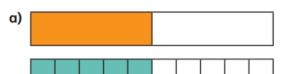
c)
$$0.3 = \frac{3}{10} = \frac{30}{100}$$

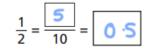
d)
$$0.09 = \frac{9}{100}$$

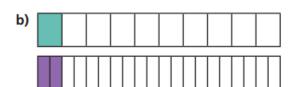
e)
$$0 \cdot 9 = \frac{9}{10}$$

f)
$$\frac{21}{50} = \frac{42}{100} = 0.42$$

5 Use the bar models to fill in the missing numbers.







$$\boxed{0 \cdot 1} = \boxed{\frac{1}{10}} = \boxed{\frac{2}{20}}$$

6



$$0.3 = \frac{3}{10}$$
 so $0.37 = \frac{37}{10}$

Draw a diagram to show that Ron is wrong.

36 m	nmnn
m lh h	m mm n
mmm	mmm
mnm	mmm
monm	mm m m
かなか	12 m m 1
n m	mann
mmm	2 W
mmm	KM V
m m m	12 Do 14

$$0.3 = \frac{3}{10}$$

$$0.37 = \frac{37}{100}$$