

## Yr 3 Multiplication and Division Unit 1 (3307)

### Additional teacher instructions for practice sheets

These notes indicate which practice sheets are most appropriate for which groups.

#### Day 1 5x and 10x tables Sheet 1

Working towards ARE

#### Day 1 Multiplying and dividing by 5 Sheet 2

Working towards ARE / Working at ARE/ Greater Depth

Working towards ARE: complete arrays and complete bronze numbers grid

Working at ARE: complete bronze and silver numbers grid

Greater Depth: complete silver and gold numbers grid

#### Day 2 2x tables (division) Sheet 1

Working towards ARE: complete odd numbers in the first set, using counters and number lines. Then have a go at the lower half.

Working at ARE: complete all 10 then the lower half

Greater Depth: as above and then the challenge.

#### Day 3 multiples of 2, 5 and 10 Sheet 1

Working towards ARE / Working at ARE




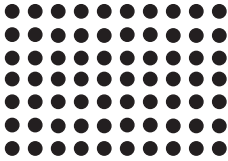


#### Day 3 multiples of 2, 5 and 10 Sheet 2

Working at ARE / Greater Depth

# 5x and 10x tables

## Sheet 1

Write the 4 number sentences to match the arrays.

Array	Multiplication sentence 1	Multiplication sentence 2	Division sentence 1	Division sentence 2
				
				
				
				
				
				

# Multiplying and dividing by 5

## Sheet 2

Multiply the given numbers by 5. Write the matching number sentences.

Starting number	Multiply by 5 (x5)	Now divide your answer by 5 ( $\div 5$ )	Alternative multiplication sentence	Alternative division sentence
e.g. <b>6</b>	e.g. <b><math>6 \times 5 = 30</math></b>	e.g. <b><math>30 \div 5 = 6</math></b>	e.g. <b><math>5 \times 6 = 30</math></b>	e.g. <b><math>30 \div 6 = 5</math></b>
<b>3</b>				
<b>5</b>				
<b>2</b>				
<b>4</b>				
<b>10</b>				
<b>6</b>				
<b>9</b>				
<b>12</b>				
<b>8</b>				
<b>11</b>				
<b>7</b>				
<b>13</b>				
<b>15</b>				
<b>20</b>				

### Challenge

Using 36 counters, how many different arrays can you make? Write their corresponding multiplication and division sentences.

## 2x tables (division)

### Sheet 1

1.  $8 \div 2 =$

2.  $16 \div 2 =$

3.  $12 \div 2 =$

4.  $24 \div 2 =$

5.  $20 \div 2 =$

6.  $22 \div 2 =$

7.  $6 \div 2 =$

8.  $10 \div 2 =$

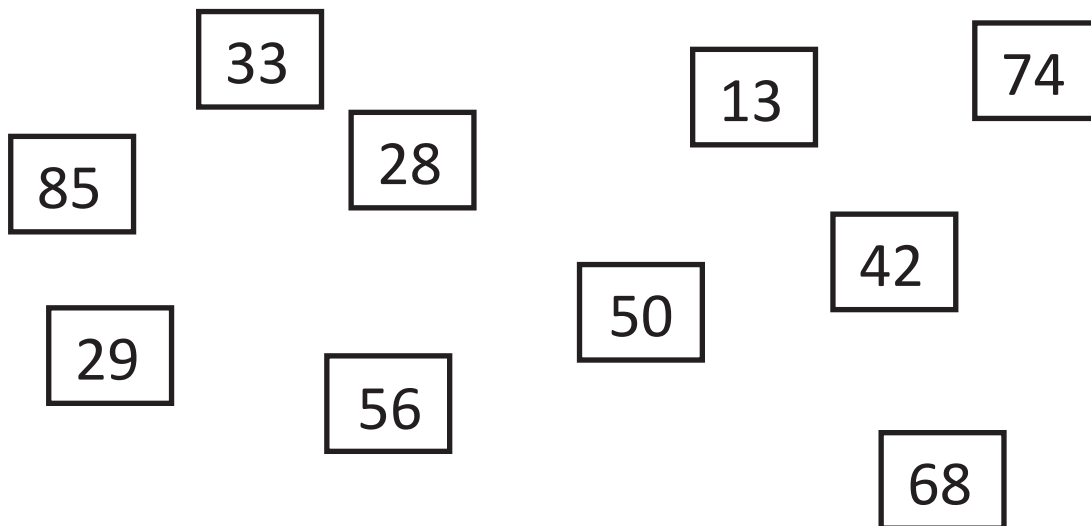
9.  $8 \div 2 =$

10.  $14 \div 2 =$

11.  $2 \div 2 =$

12.  $26 \div 2 =$

Colour the numbers in the 2x table.



#### Challenge

How many times can you divide 2 into 64?

# Multiples of 2, 5 and 10

## Sheet 1

Shade multiples of 2.

Draw a circle around multiples of 5.

Draw a cross on multiples of 10.

24

11

45

25

35

33

62

20

33

14

28

15

16

12

50

44

30

56

60

### Challenge

How many numbers between 50 and 100 are multiples of both 2 and 5?

# Multiples of 2, 5, and 10

## Sheet 2

You are given the first digit of a number. Write the second digit so that...

- a) the number is a multiple of 2
- b) the number is a multiple of 5
- c) the number is a multiple of 10

1.	a)	<table border="1"><tr><td>2</td><td></td></tr></table>	2		b)	<table border="1"><tr><td>2</td><td></td></tr></table>	2		c)	<table border="1"><tr><td>2</td><td></td></tr></table>	2	
2												
2												
2												
2.	a)	<table border="1"><tr><td>3</td><td></td></tr></table>	3		b)	<table border="1"><tr><td>3</td><td></td></tr></table>	3		c)	<table border="1"><tr><td>3</td><td></td></tr></table>	3	
3												
3												
3												
3.	a)	<table border="1"><tr><td>4</td><td></td></tr></table>	4		b)	<table border="1"><tr><td>4</td><td></td></tr></table>	4		c)	<table border="1"><tr><td>4</td><td></td></tr></table>	4	
4												
4												
4												
4.	a)	<table border="1"><tr><td>6</td><td></td></tr></table>	6		b)	<table border="1"><tr><td>6</td><td></td></tr></table>	6		c)	<table border="1"><tr><td>6</td><td></td></tr></table>	6	
6												
6												
6												
5.	a)	<table border="1"><tr><td>5</td><td></td></tr></table>	5		b)	<table border="1"><tr><td>5</td><td></td></tr></table>	5		c)	<table border="1"><tr><td>5</td><td></td></tr></table>	5	
5												
5												
5												

6. Write five multiples of 2 not written above.

7. Write four multiples of 5 not written above.

### Challenge




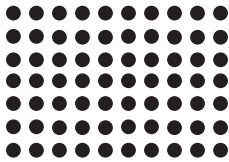


Repeat the above, but write 3-digit numbers which are multiples of 2, then 5.

# Multiplication and Division

## Answers

### Day 1

#### Sheet 1 - 5x and 10x tables

Array	Multiplication sentence 1	Multiplication sentence 2	Division sentence 1	Division sentence 2
	$5 \times 5 = 25$	$5 \times 5 = 25$	$25 \div 5 = 5$	$25 \div 5 = 5$
	$10 \times 4 = 40$	$4 \times 10 = 40$	$40 \div 10 = 4$	$40 \div 4 = 10$
	$5 \times 6 = 30$	$6 \times 5 = 30$	$30 \div 5 = 6$	$30 \div 6 = 5$
	$10 \times 7 = 70$	$7 \times 10 = 70$	$70 \div 10 = 7$	$70 \div 7 = 10$
	$5 \times 8 = 40$	$8 \times 5 = 40$	$40 \div 5 = 8$	$40 \div 8 = 5$
	$10 \times 2 = 20$	$2 \times 10 = 20$	$20 \div 10 = 2$	$20 \div 2 = 10$

# Multiplication and Division

## Answers

### Day 1

#### Sheet 2 - multiplying and dividing by 5

Starting number	Multiply by 5 (x5)	Now divide your answer by 5 (+5)	Alternative multiplication sentence	Alternative division sentence
eg. 6	eg. $6 \times 5 = 30$	eg. $30 \div 5 = 6$	eg. $5 \times 6 = 30$	eg. $30 \div 6 = 5$
3	$3 \times 5 = 15$	$15 \div 5 = 3$	$5 \times 3 = 15$	$15 \div 3 = 5$
5	$5 \times 5 = 25$	$25 \div 5 = 5$	$5 \times 5 = 25$	$25 \div 5 = 5$
2	$2 \times 5 = 10$	$10 \div 5 = 2$	$5 \times 2 = 10$	$10 \div 2 = 5$
4	$4 \times 5 = 20$	$20 \div 5 = 4$	$5 \times 4 = 20$	$20 \div 4 = 5$
10	$10 \times 5 = 50$	$50 \div 5 = 10$	$5 \times 10 = 50$	$50 \div 10 = 5$
6	$6 \times 5 = 30$	$30 \div 5 = 6$	$5 \times 6 = 30$	$30 \div 6 = 5$
9	$9 \times 5 = 45$	$45 \div 5 = 9$	$5 \times 9 = 45$	$45 \div 9 = 5$
12	$12 \times 5 = 60$	$60 \div 5 = 12$	$5 \times 12 = 60$	$60 \div 12 = 5$
8	$8 \times 5 = 40$	$40 \div 5 = 8$	$5 \times 8 = 40$	$40 \div 8 = 5$
11	$11 \times 5 = 55$	$55 \div 5 = 11$	$5 \times 11 = 55$	$55 \div 11 = 5$
7	$7 \times 5 = 35$	$35 \div 5 = 7$	$5 \times 7 = 35$	$35 \div 7 = 5$
13	$13 \times 5 = 65$	$65 \div 5 = 13$	$5 \times 13 = 65$	$65 \div 13 = 5$
15	$15 \times 5 = 75$	$75 \div 5 = 15$	$5 \times 15 = 75$	$75 \div 15 = 5$
20	$20 \times 5 = 100$	$100 \div 5 = 20$	$5 \times 20 = 100$	$100 \div 20 = 5$

#### Challenge

$1 \times 36 = 36$     $2 \times 18 = 36$     $3 \times 12 = 36$     $4 \times 9 = 36$     $6 \times 6 = 36$   
 $36 \times 1 = 36$     $18 \times 2 = 36$     $12 \times 3 = 36$     $9 \times 4 = 36$   
 $36 \div 1 = 36$     $36 \div 2 = 18$     $36 \div 3 = 12$     $36 \div 4 = 9$     $36 \div 6 = 6$   
 $36 \div 36 = 1$     $36 \div 18 = 2$     $36 \div 12 = 3$     $36 \div 9 = 4$

### Day 2

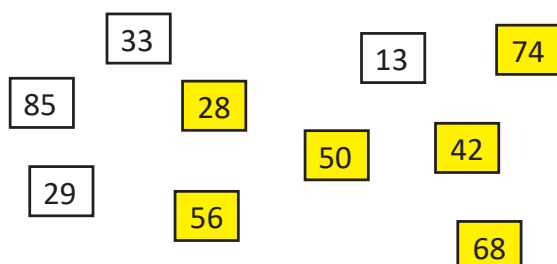
#### Sheet 1 - 2x table (division)

- $8 \div 2 = 4$
- $16 \div 2 = 8$
- $12 \div 2 = 6$
- $24 \div 2 = 12$
- $20 \div 2 = 10$
- $22 \div 2 = 11$
- $6 \div 2 = 3$
- $10 \div 2 = 5$
- $8 \div 2 = 4$
- $14 \div 2 = 7$
- $2 \div 2 = 1$
- $26 \div 2 = 13$

#### Challenge

How many times can you divide 2 into 64?

$$64 \div 2 = 32$$





# Multiplication and Division

## Answers

### Day 3

#### Sheet 1 - multiples of 2, 5 and 10

Numbers shown in boxes:

- Green boxes (multiples of 2): 24, 62, 14, 28, 12, 56, 44, 16
- White boxes (multiples of 5): 11, 25, 35, 45, 33, 15, 33
- Red circles (multiples of 10): 20, 50, 60
- Crossed out numbers: 20, 50, 60

#### Sheet 2 - multiples of 2, 5 and 10

1. a) 

2	0
---	---

, 

2	2
---	---

, 

2	4
---	---

, 

2	6
---	---

 or 

2	8
---	---

2. a) 

3	0
---	---

, 

3	2
---	---

, 

3	4
---	---

, 

3	6
---	---

 or 

3	8
---	---

3. a) 

4	0
---	---

, 

4	2
---	---

, 

4	4
---	---

, 

4	6
---	---

 or 

4	8
---	---

4. a) 

6	0
---	---

, 

6	2
---	---

, 

6	4
---	---

, 

6	6
---	---

 or 

6	8
---	---

5. a) 

5	0
---	---

, 

5	2
---	---

, 

5	4
---	---

, 

5	6
---	---

 or 

5	8
---	---

1. b) 

2	0
---	---

, 

2	5
---	---

    c) 

2	0
---	---

2. b) 

3	0
---	---

, 

3	5
---	---

    c) 

3	0
---	---

3. b) 

4	0
---	---

, 

4	5
---	---

    c) 

4	0
---	---

4. b) 

6	0
---	---

, 

6	5
---	---

    c) 

6	0
---	---

5. b) 

5	0
---	---

, 

5	5
---	---

    c) 

5	0
---	---

6. Any five multiples of 2 not already listed.

7. Any four multiples of 5 not already listed.

#### Challenge

Any 3 digit numbers which end in 2, 4, 6, 8 or 0 are correct as multiples of 2.

Any 3 digit numbers which end in 5 or 0 are correct as multiples of 5.