Yr 3 Multiplication and division Unit 6 (3923)

Additional teacher instructions for practice sheets

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

Day 1 Multiplying using the grid method Sheet 1
Working towards ARE

Day 1 Multiplying using the grid method Sheet 2
Working at ARE / Greater Depth
Working at ARE may use a times table grid to check 6-9 times table facts.

Day 2 Biscuit divisions Sheet 1
Working towards ARE /Working at ARE
Working towards ARE complete at least 6 calculations.
Working at ARE complete at least 10 calculations.

Day 2 Chocolate divisions Sheet 2
Greater Depth
Children complete at least 10 calculations.

Day 3 How many combinations? Sheet 1
Working towards ARE / Working at ARE / Greater Depth
Greater Depth complete the Challenge.

Multiplying using the grid method

Sheet 1

1. 3 x 15

x	10	5
3		

2. 8 x 14

x	10	4
8		

3. 4 x 19

x	10	9
4		

4. 3 x 23

x	20	3
3		

5. 4 x 24

x	20	4
4		

6. 3 x 25

x	20	5
3		

7. 7 x 22

x	20	2
7		

8. 8 x 25

x	20	5
8		

Multiplying using the grid method

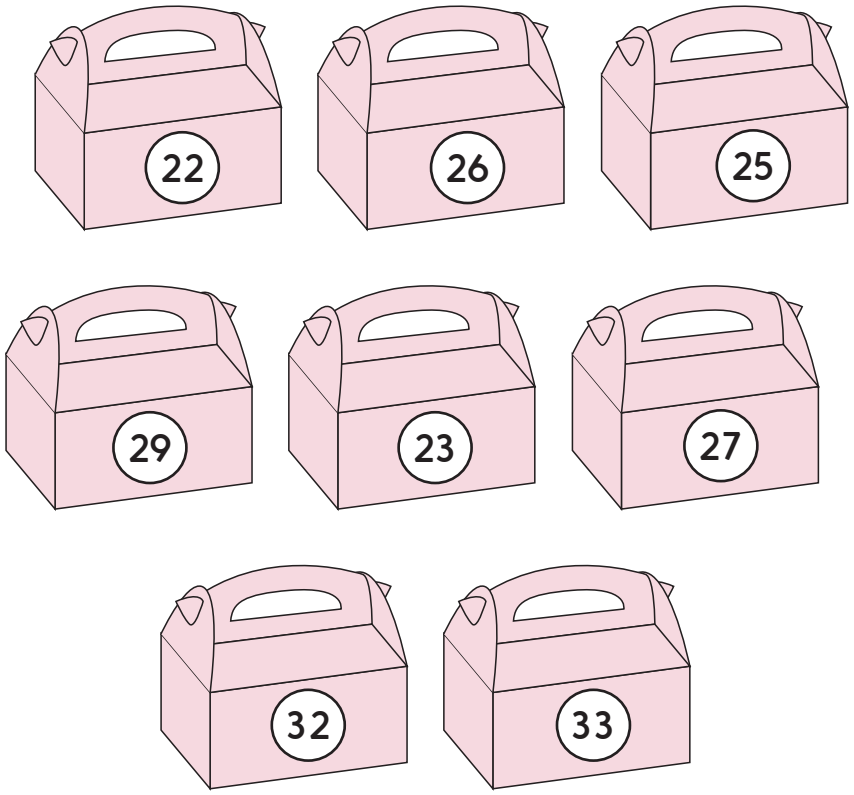
Sheet 2

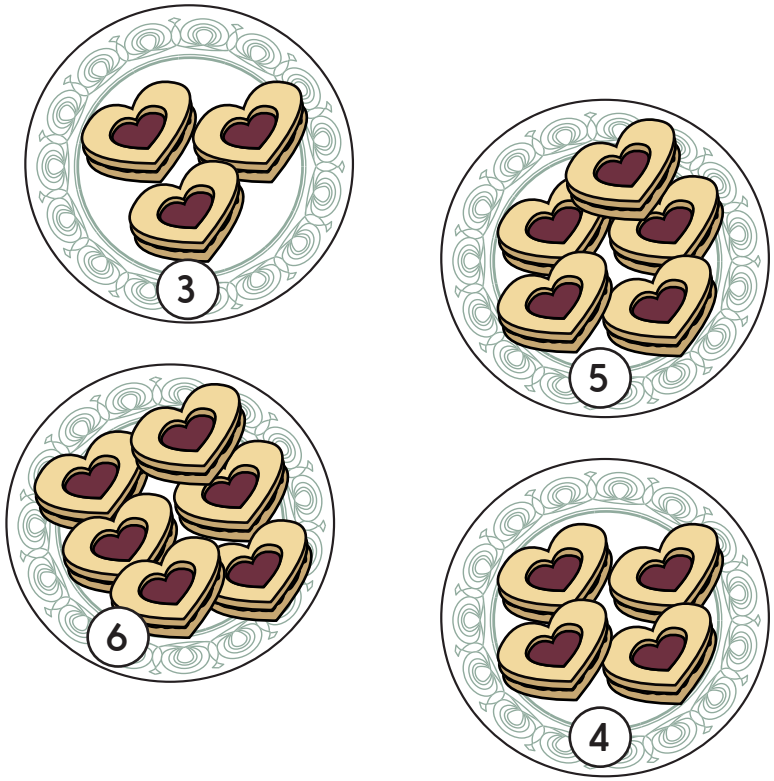
1. 3 × 28
2. 4 × 24
3. 5 × 28
4. 8 × 23
5. 3 × 32
6. 5 × 33
7. 7 × 34
8. 9 × 35
9. 8 × 38
10. 6 × 39

Biscuit divisions

Sheet 1

- Pick a big box of biscuits to divide into smaller plates of 3, 4, 5 or 6.
- Calculate how many plates can be made and whether there will be any biscuits left over.
- Sketch a number line for each calculation.

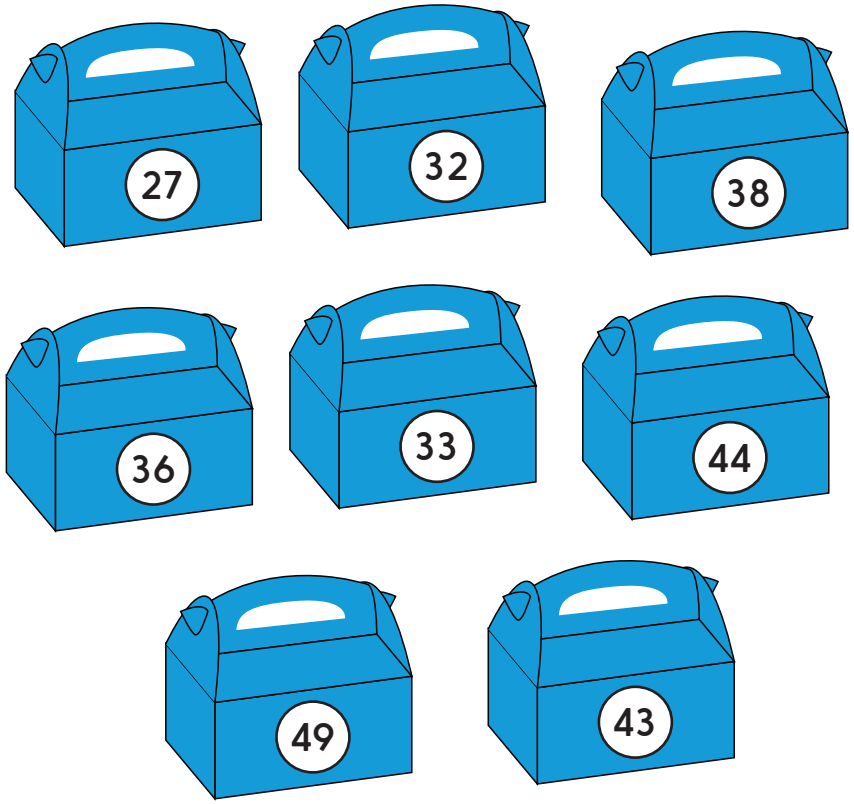




Chocolate divisions

Sheet 2

Pick a big box of chocolates to divide into smaller gift boxes of 5, 6, 8 or 9.
Calculate how many smaller boxes can be made and whether there will be any chocolates left over.



How many combinations?

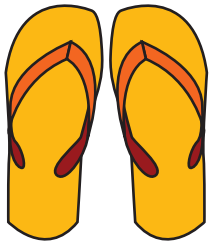
Sheet 1

1. How many different combinations of hat and coat could you choose? Write them all down.
2. How many different combinations of hat, coat and footwear are there?









Challenge

You also have a choice of jeans or shorts, how many different combinations now?

Multiplication and division

Answers

Day 1 Multiplying using the grid method Sheet 1

1. 3 x 15 = 45

x	10	5
3	30	15

2. 8 x 14 = 112

x	10	4
8	80	32

3. 4 x 19 = 76

x	10	9
4	40	36

4. 3 x 23 = 69

x	20	3
3	60	9

5. 4 x 24 = 96

x	20	4
4	80	16

6. 3 x 25 = 75

x	20	5
3	60	15

7. 7 x 22 = 154

x	20	2
7	140	14

8. 8 x 25 = 200

x	20	5
8	160	40

Day 1 Multiplying using the grid method Sheet 2

1. 3 x 28 = 84

x	20	8
3	60	24

2. 4 x 24 = 96

x	20	4
4	80	16

3. 5 x 28 = 140

x	20	8
5	100	40

4. 8 x 23 = 184

x	20	3
8	160	24

5. 3 x 32 = 96

x	30	2
3	90	6

6. 5 x 33 = 165

x	30	3
5	150	15

7. 7 x 34 = 238

x	30	4
7	210	28

8. 9 x 35 = 315

x	30	5
9	270	45

9. 8 x 38 = 304

x	30	8
8	240	64

10. 6 x 39 = 234

x	30	9
6	180	54

Multiplication and division

Answers

Day 2 Biscuit divisions Sheet 1

There are many possible combinations. Children should write out the division and any remainder,

e.g. 22 biscuits, divided onto plates of 3, 4, 5 or 6

22 ÷ 3 = 7 r1
22 ÷ 4 = 5 r2
22 ÷ 5 = 4 r2
22 ÷ 6 = 3 r4

Day 2 Chocolate divisions Sheet 2

There are many possible combinations Children should write out the division and any remainder,

e.g. 44 chocolates, divided into boxes of 5, 6, 8 and 9:

44 ÷ 5 = 8 r4
44 ÷ 6 = 7 r2
44 ÷ 8 = 5 r4
44 ÷ 9 = 4 r8

Day 3 How many combinations? Sheet 1

1. There are 9 combinations of hat and coat.

Bobble hat, red coat	Baseball cap, red coat	Sun hat, red coat
Bobble hat, green coat	Baseball cap, green coat	Sun hat, green coat
Bobble hat, blue coat	Baseball cap, blue coat	Sun hat, blue coat

2. There are 27 combinations of hat, coat and shoes.

Bobble hat, red coat, flip flops
Bobble hat, red coat, trainers
Bobble hat, red coat, shoes
Bobble hat, green coat, flip flops
Bobble hat, green coat, trainers
Bobble hat, green coat, shoes
Bobble hat, blue coat, flip flops
Bobble hat, blue coat, shoes
Bobble hat, blue coat, trainers

Baseball cap, red coat, flip flops
Baseball cap, red coat, trainers
Baseball cap, red coat, shoes
Baseball cap, green coat, flip flops
Baseball cap, green coat, trainers
Baseball cap, green coat, shoes
Baseball cap, blue coat, flip flops
Baseball cap, blue coat, shoes
Baseball cap, blue coat, trainers

Sun hat, red coat, flip flops
Sun hat, red coat, trainers
Sun hat, red coat, shoes
Sun hat, green coat, flip flops
Sun hat, green coat, trainers
Sun hat, green coat, shoes
Sun hat, blue coat, flip flops
Sun hat, blue coat, trainers
Sun hat, blue coat, shoes

Challenge

With a choice of jeans and shorts as well there are 54 different combinations of hats, coats, shoes and clothing.