

Varied Fluency

Step 11: Correspondence Problems

National Curriculum Objectives:

Mathematics Year 4: (4C8) [Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as \$n\$ objects are connected to \$m\$ objects](#)

Differentiation:

Developing Questions to support identifying the correspondence between n objects and m objects. (Includes 2, 3, 4, 5 and 8 times table with some pictorial support).

Expected Questions to support identifying the correspondence between n objects and m objects. (All table facts with some pictorial support).

Greater Depth Questions to support identifying the correspondence between n objects and m objects. (Using known times table facts to solve problems up to and beyond 12×12 with no pictorial support).

More [Year 4 Multiplication and Division](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Correspondence Problems

1a. Tilly is buying packs of cakes for her birthday. Complete the table to work out how many cakes she has.

Cakes	Contents	Total cakes
Cream Selection	3 x 3 eclairs = 9 2 x 3 horns = 6	9 + 6 = 15
Best Buns	4 x 2 muffins = 3 x 2 fairy =	
Do'Nut Doughnut	2 x 4 iced = 5 x 4 jam =	



VF

Correspondence Problems

1b. Corey is sorting out boxes of fruit. Complete the table to work out how much fruit he has.

Fruit	Contents	Total fruit
Box A	4 x 4 apples = 16 3 x 4 bananas = 9	16 + 9 = 25
Box B	5 x 3 oranges = 3 x 3 plums =	
Box C	2 x 3 peaches = 4 x 3 pears =	



VF

2a. Calculate the total number of legs.



$$\underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad} = \boxed{\quad}$$



VF

2b. Calculate the total number of petals.



$$\underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad} = \boxed{\quad}$$



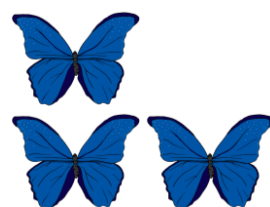
VF

3a. Cats have 4 legs, birds have two. This diagram shows that the total number of legs is $4 \times 3 + 3 \times 2 = 20$. True or false?



VF

3b. Birds have 2 wings, butterflies have 4. This diagram shows that the total number of wings is $3 \times 2 + 4 \times 3 = 18$. True or false?



VF

4a. One box contains 3 teddies and 4 dolls.



How many teddies will there be if there are 20 dolls? Circle the correct answer.

10

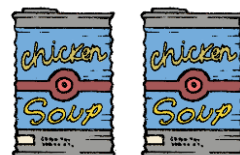
20

15



VF

4b. One box contains 4 tins of tuna and 2 tins of soup.



How many tins of tuna will there be if there are 20 tins of soup? Circle the correct answer.

10

20

40



VF

Correspondence Problems

5a. Jessie is buying sweets for a party. Complete the table to work out how many sweets she has.

Sweets	Contents	Packs	Total sweets
Fizz Pops	7 lollies 3 mints	4	40 sweets
Fruity Loopy	4 red 8 blue	3	
Sour Mix	5 cola 10 cherry	5	



VF

Correspondence Problems

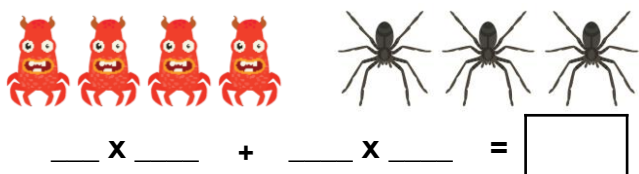
5b. Lucas is buying drinks for his party. Complete the table to work out how many drinks he has.

Drinks	Contents	Packs	Total drinks
Koala Coke	5 original 4 cherry	6	54 drinks
Moo Milky	4 vanilla 6 chocolate	4	
Fruit Squirt	10 orange 8 cherry	6	



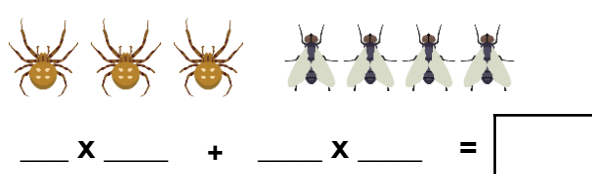
VF

6a. Calculate the total number of legs.



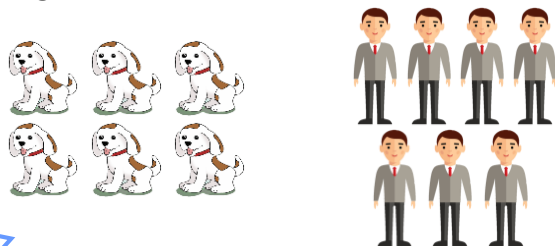
VF

6b. Calculate the total number of legs.



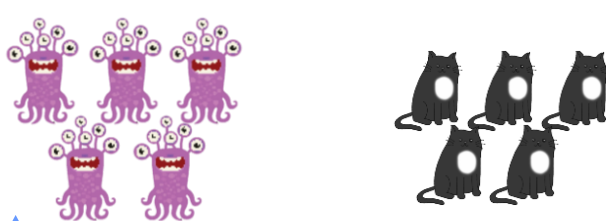
VF

7a. Dogs have 4 legs, humans have two. This diagram shows that the total number of legs is $4 \times 6 + 7 \times 2 = 38$. True or false?



VF

7b. Flubs have 6 eyes, cats have two. This diagram shows that the total number of eyes is $6 \times 6 + 5 \times 4 = 30$. True or false?



VF

8a. One box contains 3 rulers and 9 pencils.



How many rulers will there be if there are 45 pencils? Circle the correct answer.

9

12

15



VF

8b. One box contains 4 dresses and 6 scarves.



How many scarves will there be if there are 32 dresses? Circle the correct answer.

24

48

56



VF

Correspondence Problems

Correspondence Problems

9a. Mrs Cooke is ordering food for school lunches. Complete the table to work out how much food she has.

Order	Contents	Boxes	Total
Billy's Bread	8 white 7 brown	5	75
Fred's Meats	6 beef 6 turkey	6	
Veggie Verde	12 mixed 3 beans	4	



VF

9b. Mr Staple is ordering stationery for the school office. Complete the table to work out how much he orders.

Order	Contents	Boxes	Total
Pete's Pens	7 pens 4 pencils	6	54
Odd Bobs	6 sharpeners 4 rubbers	4	
Paper Mill	9 paper 4 card	6	



VF

10a. Under a log there are 6 spiders and 7 beetles.

Calculate the total number of legs.

$$\underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad} = \boxed{\quad}$$



VF

10b. There are 9 tricycles and 6 skateboards.

Calculate the number of wheels.

$$\underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad} = \boxed{\quad}$$



VF

11a. PIPps have 4 legs, ToodS have 3 legs.

True or false? Three PIPps and eight ToodS have 64 legs altogether.



VF

11b. Flobs have 6 eyes, Yulps have 4 eyes.

True or false? Seven Flobs and four Yulps have 58 eyes altogether.



VF

12a. One box contains 8 lollies and 9 toffees.

How many toffees will there be if there are 64 lollies? Circle the correct answer.

70

72

64



VF

12b. One box contains 8 balls and 7 rackets.

How many balls will there be if there are 63 rackets? Circle the correct answer.

72

65

63



VF

Varied Fluency Correspondence Problems

Developing

- 1a. **Best buns = 14; Do'Nut Doughnut = 28**
2a. **$3 \times 4 + 6 \times 3 = 30$**
3a. **False. The diagram shows $4 \times 4 + 3 \times 2 = 22$**
4a. **15**

Expected

- 5a. **Fruity Loopy = 36, Sour Mix = 75**
6a. **$6 \times 4 + 3 \times 8 = 48$**
7a. **True**
8a. **15**

Greater Depth

- 9a. **Fred's Meats = 72, Veggie Verde = 60**
10a. **$6 \times 8 + 7 \times 6 = 90$**
11a. **False, $3 \times 4 + 8 \times 3 = 36$**
12a. **72**

Varied Fluency Correspondence Problems

Developing

- 1b. **Box B = 24; Box C = 18**
2b. **$8 \times 3 + 3 \times 6 = 42$**
3b. **True**
4b. **40**

Expected

- 5b. **Milky Moo = 40, Fruit Squirts = 108**
6b. **$3 \times 8 + 6 \times 4 = 48$**
7b. **False. The diagram shows $6 \times 5 + 5 \times 2 = 40$**
8b. **48**

Greater Depth

- 9b. **Odd Bobs = 40, Paper Mill = 78**
10b. **$9 \times 3 + 6 \times 4 = 51$**
11b. **True**
12b. **72**