Varied Fluency Step 11: Correspondence Problems

National Curriculum Objectives:

Mathematics Year 4: (4C8) <u>Solve problems involving multiplying and adding, including</u> 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* <u>objects</u>

Differentiation:

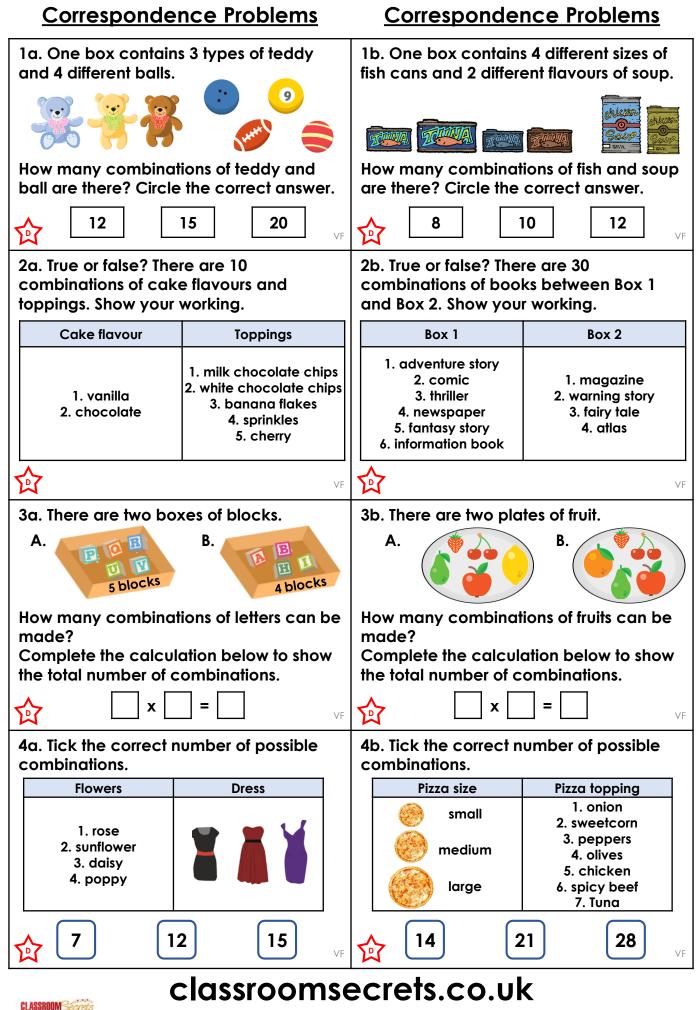
Developing Questions to support identifying the correspondence between *n* objects and *m* objects. Includes 2, 3, 4, 5 and 8 times table with some pictorial support. **Expected** Questions to support identifying the correspondence between *n* objects and *m* objects. All table facts with some pictorial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

Greater Depth Questions to support identifying the correspondence between *n* objects and *m* objects. All table facts with no pictorial support.

More <u>Year 4 Multiplication and Division</u> resources.

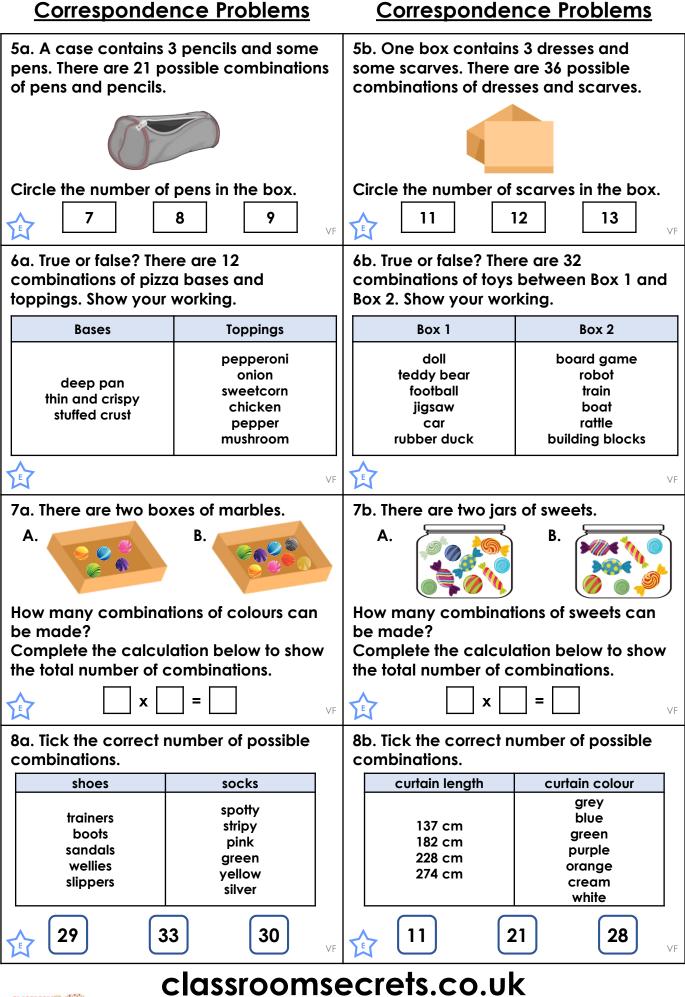
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Varied Fluency – Correspondence Problems – Year 4 Developing



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Varied Fluency – Correspondence Problems – Year 4 Expected

Corresp	ondence h	roblems	Correspondence Problems		
9a. One box contains 4 flavours of Iollies and 5 different toffees.			9b. One box contains 4 types of balls and 7 different rackets.		
Circle the combinations that can be made if 6 types of sweets are added.			Circle the combinations that can be made if 5 coloured T-shirts are added.		
<u>è</u> 110	100	120	140	130	150 VF
10a. True or false? There are more than 90 combinations of pizza bases and toppings. Show your working.			10b. True or false? There are less than 100 combinations of sandwiches. Show your working.		
Bases	1 st Topping	2 nd Topping	Bread	Filling 1	Filling 2
deep pan thin and crispy stuffed crust	pepperoni chicken spicy beef tuna	onion sweetcorn peppers mushroom olives basil	brown white baguette seeded	ham cheese tuna beef turkey	tomato lettuce cheese cucumber onion
VF			VF		
11a. There are three boxes of toys.			11b. There are three packets of stickers.		
A. train B. teddy C. train ball robot teddy doll doll car car boat boat		A. blue B. silver C. silver green gold green yellow orange yellow purple orange			
How many combinations of toys can be made?			How many combinations of colours can be made?		
☆ □,	« 🗌 x 📃 =	=	☆ □,	< 🗌 x 📃 =	VF
12a. Complete the table and tick the correct number of possible combinations.			12b. Complete the table and tick the correct number of possible combinations.		
Fish 1	Fish 2	Fish 3	Fruit 1	Fruit 2	Fruit 3
tetra guppy catfish angel fish	?	snail minnow barb	?	apple banana pear mango grape orange	kiwi melon peach
15	48	54 VF	34	36	42 VF
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Varied Fluency Correspondence Problems

Developing

1a. 12 combinations
2a. True: 2 x 5 = 10 combinations
3a. 5 x 4 = 20 combinations
4a. 12 combinations

Expected

5a. 7 pens
6a. False: 3 x 6 = 18 combinations, not 12
7a. 5 x 8 = 40 combinations
8a. 30 combinations

Greater Depth

9a. 120 combinations
10a. True: 4 x 4 x 6 = 96 combinations
11a. 5 x 2 x 5 = 50 combinations
12a. There are 4 fish missing from column
2. The correct number of combinations is
48.

Varied Fluency Correspondence Problems

Developing

1b. 8 combinations
2b. False: 4 x 6 = 24 combinations, not 30
3b. 5 x 5 = 25 combinations
4b. 21 combinations

Expected

- 5b. 12 scarves
 6b. False: 6 x 6 = 36 combinations, not 32
 7b. 9 x 7 = 63 combinations
- 8b. 28 combinations

Greater Depth

9b. 140 combinations 10b. False: $4 \times 5 \times 5 = 100$ combinations 11b. $5 \times 3 \times 3 = 45$ combinations 12b. There are 2 fruits missing from column 2. The correct number of combinations is 36.



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Varied Fluency – Correspondence Problems ANSWERS