

# Reasoning and Problem Solving

## Step 9: Count in 5s

### National Curriculum Objectives:

Mathematics Year 1: (1N1b) [Count in multiples of twos, fives and tens](#)

### Differentiation:

Questions 1, 4 and 7 (Problem Solving)

**Developing** Travel through the maze by counting forwards in 5s. Includes a number track for support, with numerals only.

**Expected** Travel through the maze by counting forwards 5s. Numerals only.

**Greater Depth** Travel through the maze by counting forwards in 5s. Includes numerals, words and partitioned numbers.

Questions 2, 5 and 8 (Reasoning)

**Developing** Explain whether a counting in 5s statement is correct. Number track included for support, with numerals only.

**Expected** Explain whether a counting in 5s statement is correct. Numerals only.

**Greater Depth** Explain whether a counting in 5s statement is correct. Includes numerals and words.

Questions 3, 6 and 9 (Reasoning)

**Developing** Identify how many 5s are needed to make a number. Includes numerals and labelled pictorial representations. Includes a number track for support.

**Expected** Identify how many 5s are needed to make a number. Includes pictorial representations.

**Greater Depth** Identify how many 5s are needed to make a number. Includes numerals and words.

More [Year 1 Place Value](#) resources.

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## Count in 5s

1a. Find the way through the maze by counting forwards in 5s.

	24	42	35	40 finish
	27	36	30	49
start	15	20	25	17
	28	50	37	5

0	5	10	15	20	25	30	35	40	45	50
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PS

## Count in 5s

1b. Find the way through the maze by counting forwards in 5s.

start	25	9	18	23
	30	35	36	48
	15	40	45	50 finish
	18	29	37	49

0	5	10	15	20	25	30	35	40	45	50
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PS

2a. Jo has 5 pencils into each pot.



She says,



I have 30 pencils altogether.

Is she correct? Explain your answer.

0	5	10	15	20	25	30	35	40	45	50
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R

2b. Harry has 5 sausages in each pan.



He says,



I have 15 sausages altogether.

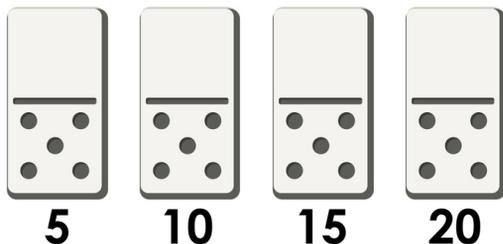
Is he correct? Explain your answer.

0	5	10	15	20	25	30	35	40	45	50
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R

3a. Danny is playing with dominoes.



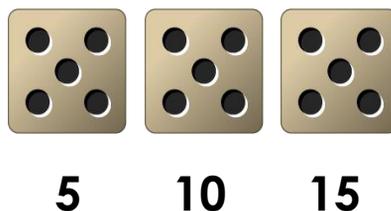
How many more dominoes with 5 spots does he need to get a score of 30?

Prove it.



R

3b. Mia is playing with dice.



How many more dice with 5 spots does she need to get a score of 30?

Prove it.



R

## Count in 5s

4a. Find the way through the maze by counting forwards in 5s.

start	10	49	46	27	11	
	15	20	38	36	31	
	44	25	30	22	16	
	41	24	35	40	45	
	37	23	19	18	50	finish



PS

## Count in 5s

4b. Find the way through the maze by counting forwards in 5s.

	37	24	9	45	50	finish
	40	13	41	40	22	
start	0	5	29	35	38	
	39	10	16	30	43	
	36	15	20	25	26	



PS

5a. Jess has 5 cookies on each plate.



She says,



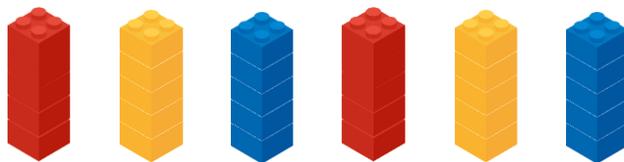
I have 25 cookies altogether.

Is she correct? Explain your answer.



R

5b. Alfie has towers of 5 bricks.



He says,



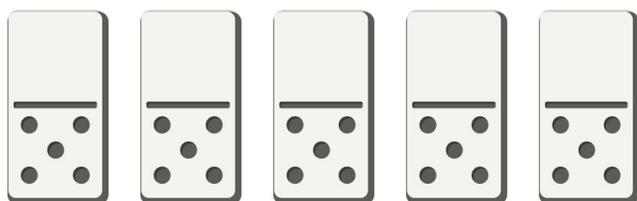
I have 6 bricks altogether.

Is he correct? Explain your answer.



R

6a. James is playing with dominoes.



How many more dominoes with 5 spots does he need to get a score of 40?

Prove it.



R

6b. Tia is playing with dice.



How many more dice with 5 spots does she need to get a score of 25?

Prove it.



R

## Count in 5s

7a. Find the way through the maze by counting forwards in 5s.

start	0	49	forty-six	27	eleven
	five	1 ten	38	36	31
	44	1 ten 5 ones	20	twenty-two	16
	41	24	25	36	fifty
	32	23	thirty	35	4 tens
					finish



PS

## Count in 5s

7b. Find the way through the maze by counting forwards in 5s.

	18	43	38	3 tens 6 ones	eight
	twenty-nine	2 tens	18	24	37
start	five	12	24	forty	45
	1 ten	fifteen	37	35	50
	12	2 tens	25	thirty	23
					finish



PS

8a. Aiza has five biscuits in each packet.



She says,



I have 6 biscuits altogether.

Is she correct? Explain your answer.



R

8b. Cam has five shells in each bucket.



He says,



I have 40 shells altogether.

Is he correct? Explain your answer.



R

9a. Greg is playing with dominoes.

He has 7 of the same domino.



How many of the same domino does he need to get a score of 45?

Prove it.



R

9b. Jen is playing with dice.

She has rolled the number 5 four times.



How many more rolls of five does she need to get a score of forty?

Prove it.



R

# Reasoning and Problem Solving

## Count in 5s

### Developing

1a.

24	42	35	40
27	36	30	49
15	20	25	17
28	50	37	5

2a. Jo is incorrect. She has 5 pots with 5 pencils in each, which makes 25 altogether.

3a. He needs 2 more dominoes because to get from 20 to 30, he will say 2 numbers (25 and 30).

### Expected

4a.

10	49	46	27	11
15	20	38	36	31
44	25	30	22	16
41	24	35	40	45
37	23	19	18	50

5a. Jess is incorrect. She has 4 plates with 5 cookies on each, which makes 20 altogether.

6a. He needs 3 more dominoes because to get from 25 to 40, he will say 3 numbers (30, 35 and 40).

### Greater Depth

7a.

0	49	forty-six	27	eleven
five	1 ten	38	36	31
44	1 ten 5 ones	20	twenty-two	16
41	24	25	36	fifty
32	23	thirty	35	4 tens

8a. Aiza is incorrect. She has 6 packets with 5 biscuits in each, which makes 30 altogether.

9a. He needs 2 more dominoes because he currently has 35. To get from 35 to 45, he will say 2 numbers (40 and 45).

# Reasoning and Problem Solving

## Count in 5s

### Developing

1b.

25	9	18	23
30	35	36	48
15	40	45	50
18	29	37	49

2b. Harry is incorrect. He has 4 pans with 5 sausages in each, which makes 20 altogether.

3b. She needs 3 more dice because to get from 15 to 30, she will say three numbers (20, 25 and 30).

### Expected

4b.

37	24	9	45	50
40	13	41	40	22
0	5	29	35	38
39	10	16	30	43
36	15	20	25	26

5b. Alfie is incorrect. He has 6 towers with 5 bricks in each, which makes 30 altogether.

6b. She needs 3 more dice because to get from 10 to 25, she will say 3 numbers (15, 20 and 25).

### Greater Depth

7b.

18	43	38	3 tens 6 ones	eight
twenty-nine	2 tens	18	24	37
five	12	24	forty	45
1 ten	fifteen	37	35	50
12	2 tens	25	thirty	23

8b. Cam is incorrect. He has 7 buckets with 5 shells in each, which makes 35 altogether.

9b. She will need 4 more dice because she currently has 20. To get from 20 to 40, she will say 4 numbers (25, 30, 35 and 40).