APM

Advancing Primary **Mathematics** Assessments

Year 1

Term 1

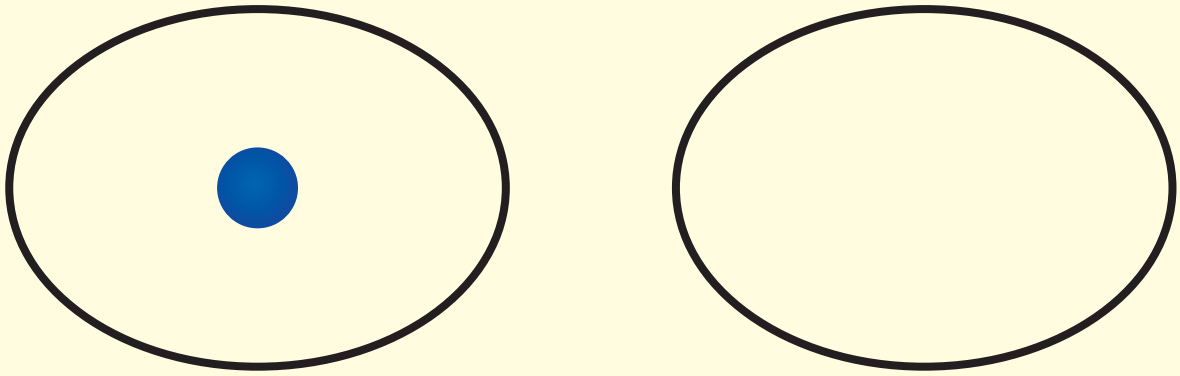
Name:

Test date:	/ /		
Date of birth:	/ /	**Chronological age:**	years months

Key skills	Marks
CS: Counting and sequences	/10
INT: Integers, powers and operations	/9
PV: Place value, ordering and rounding	/3
GSP: Geometry, shape and position	/4
TM: Time and measures	/1
PS: Probability and statistics	/3
Total marks	**/30**
Mathematical thinking	/5

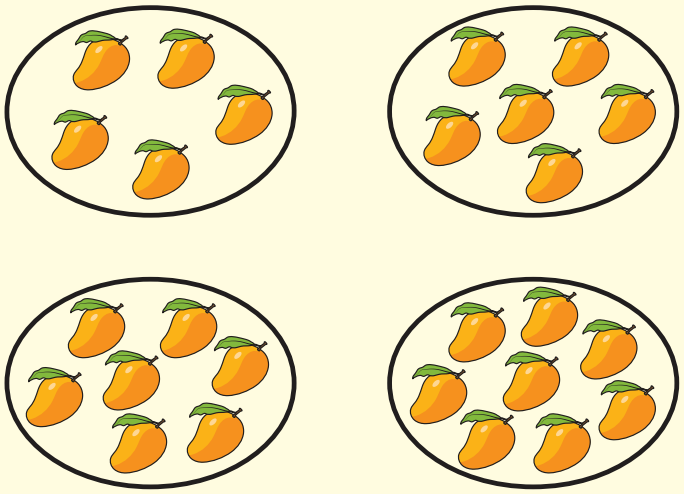
hachette LEARNING

1



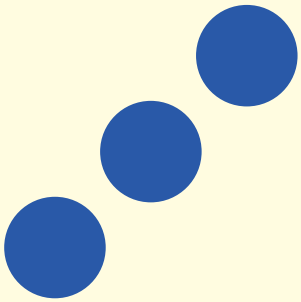
/1
CS

2



/1
CS

3 Dev makes a pattern with some counters.



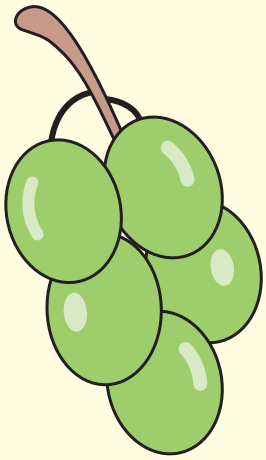
Write the number of counters he used.

_____ counters

/1
CS

page total _____

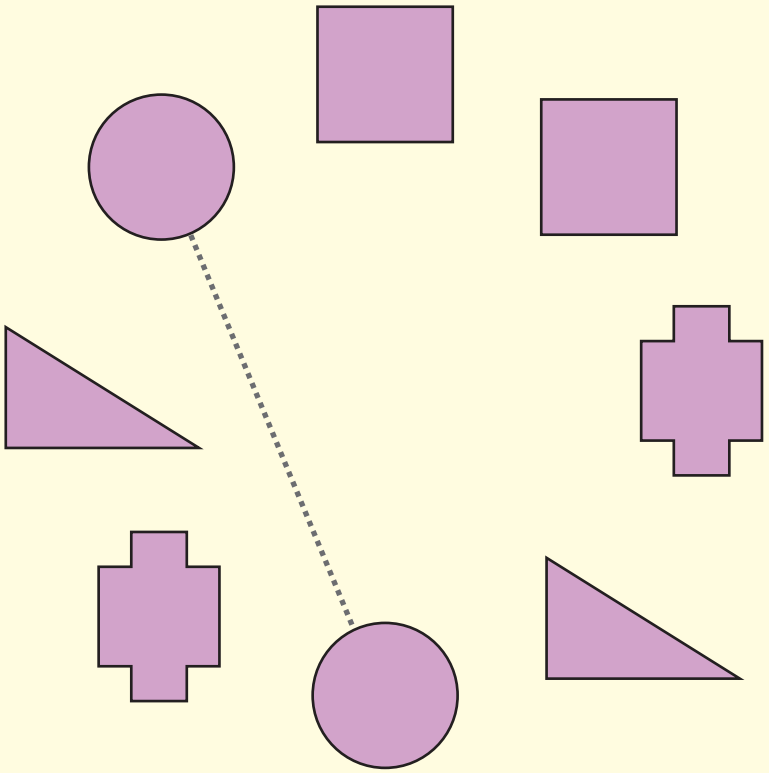
4



_____ grapes

/1
INT

5



/1
GSP

6

Sam has eight stars.

Anna has **one more** star.

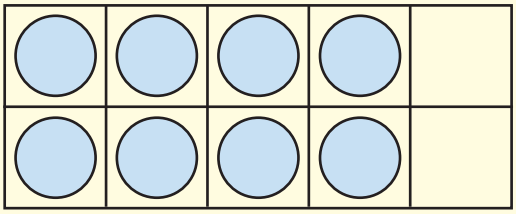
How many stars does Anna have?

_____ stars

/1
INT

page total

7 Here are some counters on a ten frame.



Draw a circle around the number the ten frame shows.

2 8 10

/1
CS
TWM 7/8

8 Akfar counts all the children playing.

He counts to **15**

Then **2** more children join.

How many children are there now?

_____ children

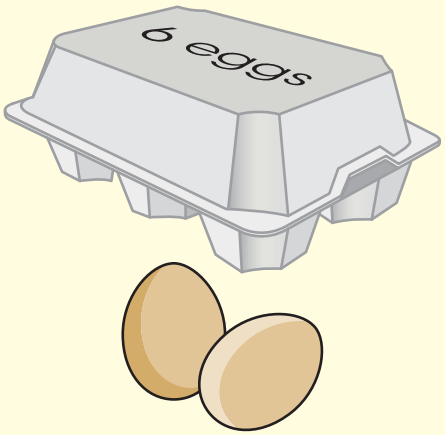
/1
INT

9 Look at the picture.

There are **6** eggs in a box.

There are another **2** eggs.

How many eggs are there altogether?



_____ eggs

/1
CS

page total _____

1 Write the number that comes next.

6 7 8 9 ☐

/1 CS

2 Write the number that comes next.

10 20 30 40 ☐

/1 CS

3 Here is a set of numbers.

Kyra draws circles around some of the numbers.

1 (2) 3 (4) 5 (6) 7 (8) 9 (10)

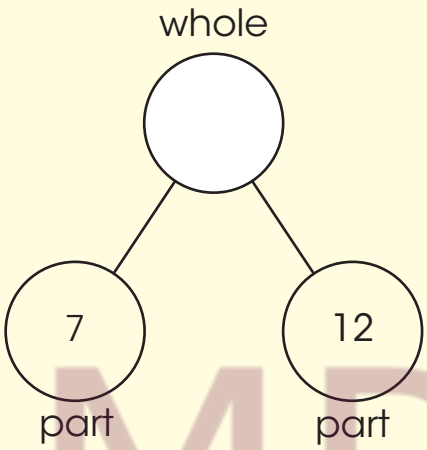
Tick (✓) the correct statement about the numbers Kyra has circled.

- ☐ All the circled numbers are odd.
- ☐ All the circled numbers are 1-digit numbers.
- ☐ All the circled numbers are even.
- ☐ All the circled numbers are 2-digit numbers.

/1 CS

4 Complete this part–whole model.

Write your answer in the white circle.



/1 INT

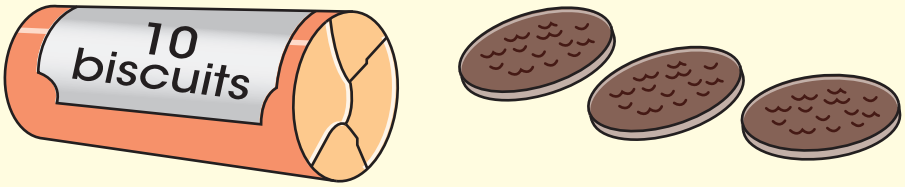
page total ☐

5

balls

/1
INT

6



biscuits

/1
INT

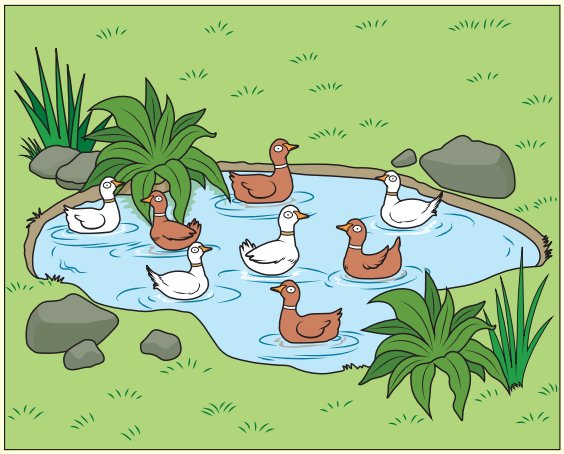
7

9	*nine*
16	

/1
INT

page total

8



ducks

/1 INT

9

12 13 14 ? 16

Look at the list of numbers.

The numbers are in order, but one number is missing.

Which of these is the missing number? Draw a circle around it.

5 16 17 15 14

/1 PV

10

fifty-eight

Look at the number written in words.

Write this number in digits.

/1 INT

11

These letters arrive at school one week.

Dev thinks there are 26 letters.

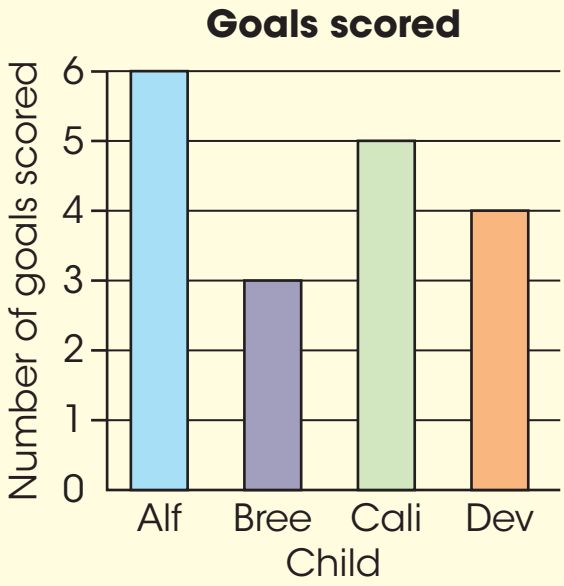
How many letters are there?

letters

/1 CS

page total

12 This block graph shows the number of goals scored by four children.



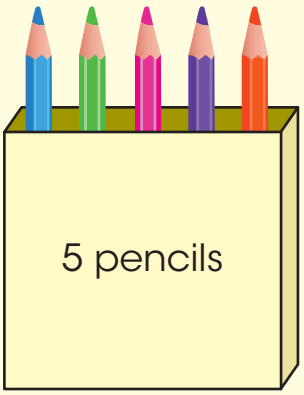
Write the names in order, starting with the child who scored the most.

scored the **most**			scored the **least**

/1
PS

13 There are **5** pencils in a pack.

Using the table provided, work out how many pencils there are in **4** packs.



Number of packs	Repeated addition sentence	Number of pencils
2	5 + 5	10
3		
4		

There are ____ pencils in 4 packs.

/1
INT
TWM: 1/2

page total ____

1 Here are some numbers.

45 711 936 78 225

Add the numbers to the Carroll diagram.

	Odd numbers	Even numbers
3-digit numbers		
Not 3-digit numbers		

/1
CS
TWM:
5/6

2 Match the numbers below to make pairs of numbers that total **500**

240	160
160	240
340	260
260	340

/1
INT

3 Harpreet is counting in steps of the same size.

Here is part of Harpreet's set of numbers.

Add the three missing numbers to complete the set.

	705			735	745

/1
CS
TWM:
1/2

page total

4 Draw a circle around the calculation with a different answer to the others.

4×12 6×8 2×24

7×7 8×6

/1 INT

5 Draw a circle around the number where 7 represents 7 **tens**.

2708 297 9273

740 4017

/1 PV

6 Calculate:

$89 \div 5 =$ ☐ R ☐

/1 INT

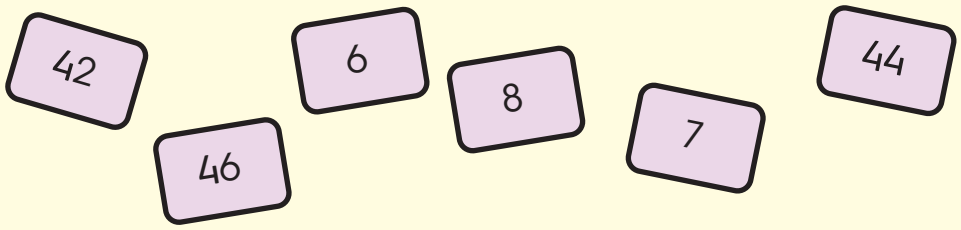
page total ☐

18 Complete this table.

	Round to the nearest 10,000	Round to the nearest 100,000
351,734		

/1
PV

19 Here are some number cards. You may use each card more than once.



Choose **three** of the cards to complete **two** multiplication facts and **two** division facts.

$\square \times \square = \square$ $\quad \square \div \square = \square$

$\square \times \square = \square$ $\quad \square \div \square = \square$

/2
INT

20

Jar A

$\frac{1}{3}$ of the counters are yellow

Jar B

$\frac{1}{6}$ of the counters are yellow

Jar C

$\frac{1}{5}$ of the counters are yellow

There are three jars of counters.

Each jar has 120 counters.

Write the letters for each jar in order, starting with the one that has the **most** yellow counters.

most yellow counters		

/1
FDPR

page total

31 Complete the missing numbers in this multiplication square.

×	4	6	7
3		18	
5	20	30	35
	32		56

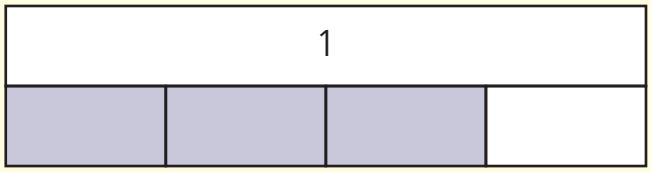
/2
INT

32 Write the **two** missing numbers in this sequence.

	635	675	715	

/1
CS
TWM: 1/2

33 Part of this bar model has been shaded.



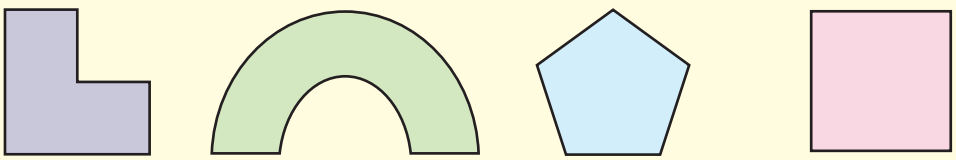
Write numbers to show the calculation represented by the shaded area.

$1 \div \square \times \square = \frac{3}{4}$

/2
FDPR

34 Here are four shapes.

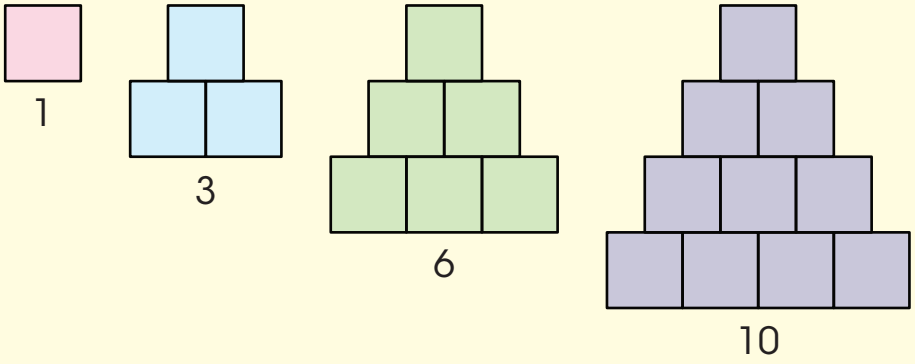
Circle the **two** shapes that could tessellate without any gaps.



/1
GSP

page total

5 These drawings show the first four triangular numbers.



What is the **sixth** triangular number?

/1
CS
TWM: 3/4

6 Match the calculations that have the same answer.

3.06 × 10	3060 ÷ 10
0.36 × 100	3060 ÷ 100
3.06 × 100	3600 ÷ 100
0.36 × 10	30,600 ÷ 10
3.06 × 1000	36 ÷ 100

/2
PV

7 Calculate:

20 + 20 ÷ 20 =

/1
INT

8 Draw a circle around the percentage that is equivalent to $\frac{2}{5}$

20% 25% 40% 52% 70%

/1
FDPR
TWM: 7/8

page total

18 Here are five numbers.

2 29 42 57 59

Add the numbers to the Carroll diagram.

	Prime numbers	Composite numbers
Odd numbers		
Even numbers		

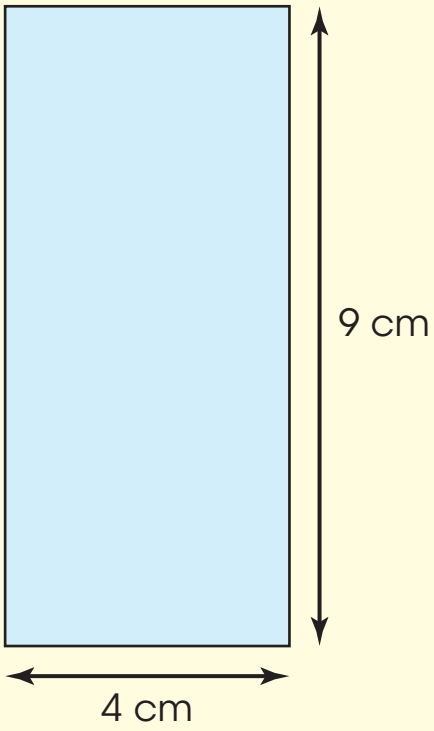
/1
INT
TWM: 5/6

19 Calculate:

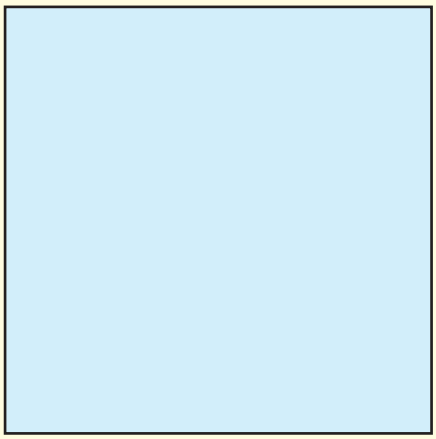
$$\frac{11}{12} + \frac{3}{4} = \frac{\square}{\square}$$

/1
FDPR

20 The area of the square is the **same** as the area of the rectangle.



Not drawn to scale



How **long** is each side of the square?

cm

/1
GSP

page total

21 Circle **all** the square numbers.

49 74 99 66 81

/1
INT
TWM: 3/4

22 Ana completes a swim in 11 minutes 12 seconds.

Maisie completes the same swim in 8 minutes 48 seconds.

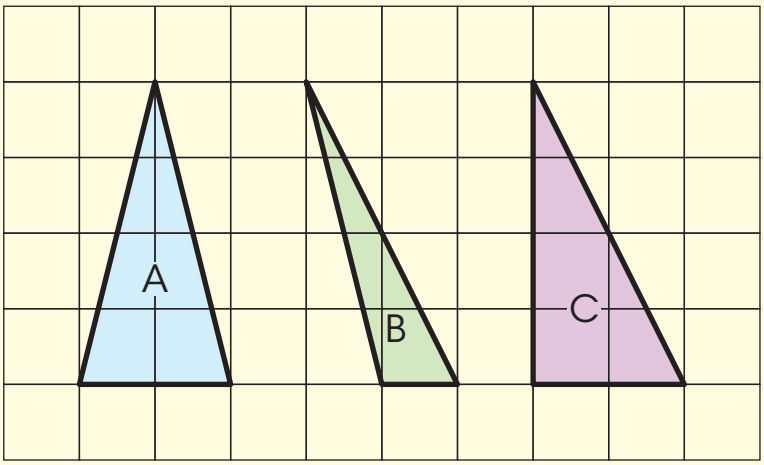
How much quicker was Maisie than Ana?

Give your answer in minutes and seconds.

[ ] minutes [ ] seconds

/1
TM

23 These triangles are drawn on a square grid.



Write the letter of each triangle into the Carroll diagram.

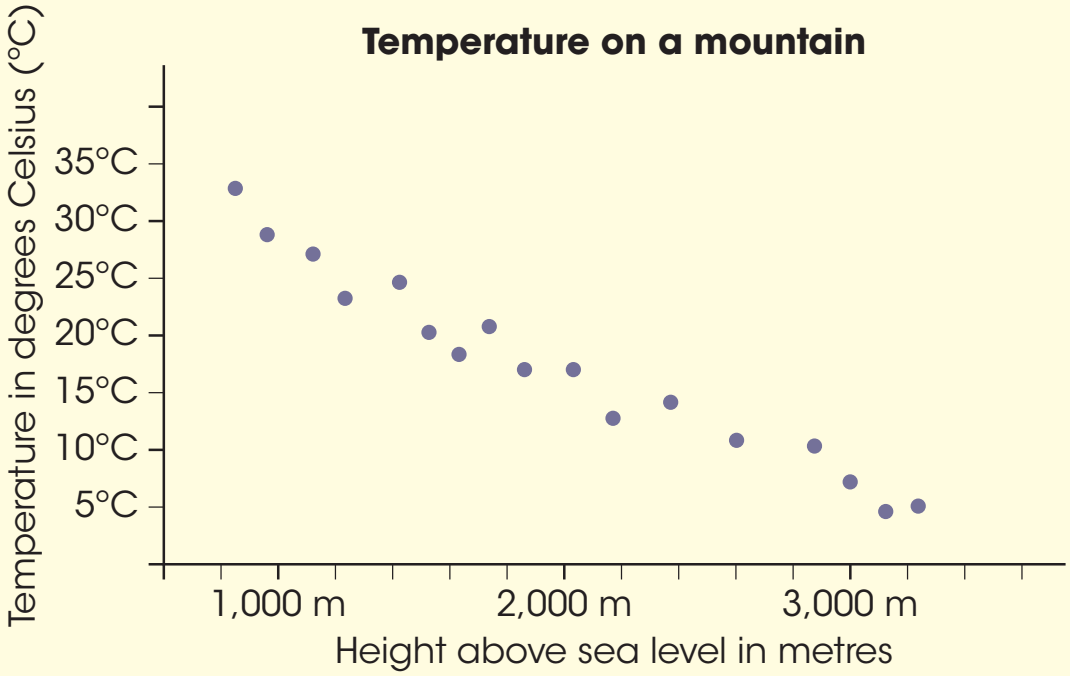
	Scalene triangles	Isosceles triangles	Equilateral triangles
Three acute angles			
One right angle			
One obtuse angle			

/1
GSP
TWM: 5/6

page total [ ]

40 The weather service is taking temperatures at different heights on a mountain.

This scatter graph shows the results.



a) Select the words to complete the statement about the data in the scatter graph.

The graph shows the [higher up / lower down] the mountain the [warmer / colder] the temperature.

/1
PS
TWM: 7/8

b) Bruno takes the temperature at 1600 m above sea level.

Tick (✓) the temperature that was most likely to have been recorded.

- ☐ 14°C
- ☐ 22°C
- ☐ 29°C
- ☐ 33°C

/1
PS
TWM: 7/8

41 Write the missing numbers in this subtraction.

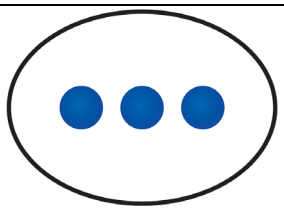
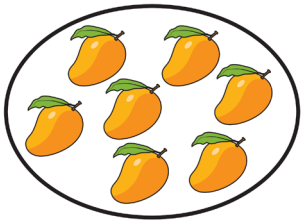
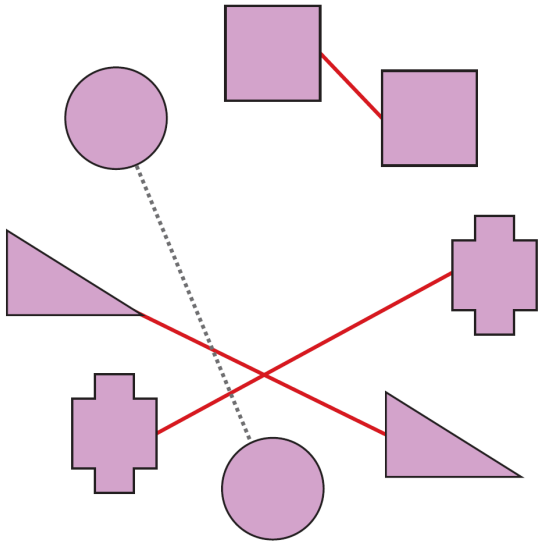
	7	5	2	☐
−	☐	8	2	9
	4	6	9	5

/1
INT

page total ☐

Advancing Primary Mathematics Assessment Term 1, Year 1 Answers

Note: allow other correct notations in answers.

Question	Marks	Answer	Notes
1	1		
2	1		
3	1	3 (counters)	Accept the word three or any other phonetic equivalent.
4	1	4 (grapes)	Accept the word four or any other phonetic equivalent.
5	1		All three pairs matched correctly for 1 mark.
6	1	9 (stars)	Accept the word nine or any other phonetic equivalent.
7	1	8	Correct answer indicated only.
8	1	17 (children)	Accept the word seventeen or any other phonetic equivalent.
9	1	8 (eggs)	Accept the word eight or any other phonetic equivalent.
10	1	16	Correct answer indicated only.