Bronze

1a. Match the question to the correct answer.

3,665 ÷ 3

Thousands	Hundreds	Tens	Ones
1,000 1,000 1,000	100 100 100 100 100 100	10 10 10 10 10 10	1 1 1 1 1

1,664 r3 | 1,222 r1 | 1,221 r2

VF

1b. Steph is calculating 2,243 ÷ 2.

Steph

The answer is 1,121 r3.

Thousands	Hundreds	Tens	Ones
1,000 1,000	100 100 100 100	10 10 10 10	1 1 1

Is she correct? Explain your reasoning.

R

2a. True or false? The answer to the calculation below has a remainder.

4,844 ÷ 4

Thousands	Hundreds	Tens	Ones
1,000 1,000 1,000 1,000	100 100 100 100 100 100 100 100	10 10 10 10	1 1 1 1

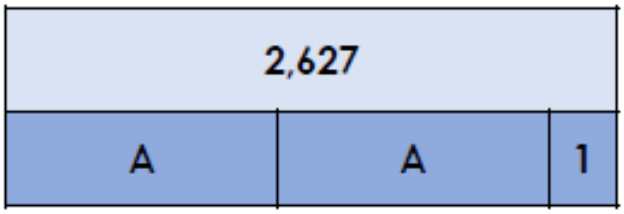
VF

2b. Chocolate bars are packed into packets. One packet holds 4 bars. There are 4,847 bars. How many packets are needed to hold all the bars?

1,000 100 100 10 1 1
1,000 100 100 10 1 1
1,000 100 100 10 1 1
1,000 100 100 10 1

PS

3a. Calculate the value of A.



1,000 100 100 100 10 1 1 1 1
1,000 100 100 100 10 1 1 1

2

VF

3b. Arrange the number cards below to create a calculation which has a remainder of 1. Complete the calculation.

6 7

r1

3 | 6 ☐ 9 ☐

PS

Silver

4a. Match the question to the correct answer.

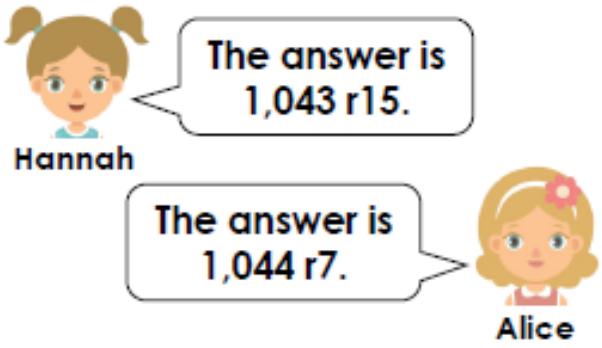
6,463 ÷ 6

Thousands	Hundreds	Tens	Ones
1,000 1,000 1,000 1,000 1,000 1,000	100 100 100 100	10 10 10 10 10 10	1 1 1

1,077 r1 | 1,106 r3 | 1,077 r3

VF

4b. Hannah and Alice are calculating 8,359 ÷ 8.



Who is correct? Explain your reasoning.

R

5a. True or false? The answer to the calculation below has a remainder.

8,832 ÷ 8

Thousands	Hundreds	Tens	Ones
1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	100 100 100 100 100 100 100 100	10 10 10	1 1 1 1

VF

5b. Eggs are packed into boxes. One box holds 8 eggs. There are 9,621 eggs. How many boxes are needed to hold all the eggs?

PS

6a. Calculate the value of A.

5,269					
A	A	A	A	A	4

5

VF

6b. Arrange the number cards below to create a calculation which has a remainder of 2. Complete the calculation.

4 5 4

r2

7 | 3 □ □ □

PS

Gold

7a. Match the question to the correct answer.

A. 6,376 ÷ 7	754 r4
B. 4,528 ÷ 6	1,820 r3
C. 7,283 ÷ 4	910 r6

VF

7b. Sinead and Isabel have been exploring the 1-digit number that 4,332 has been divided by to get the answer 866 r2.

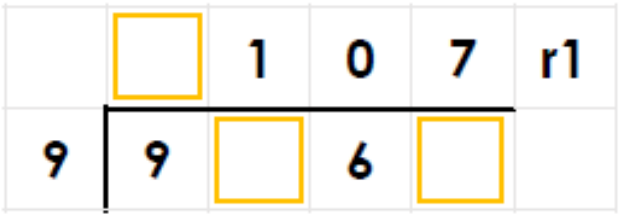
Sinead: The divisor is 8.

Isabel: The divisor is 5.

Who is correct?
Explain your reasoning.

R

8a. Complete the calculation so that it has a remainder of 1.

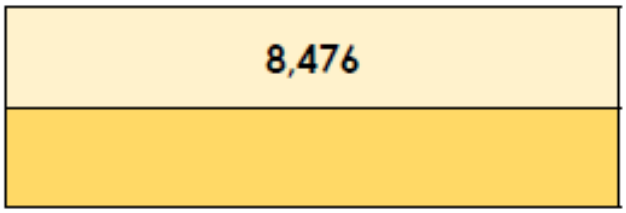


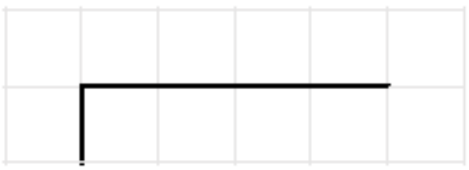
VF

8b. There are 2,012 pears packed into less than 300 bags with 3 left over. How many pears fit into a bag, and how many bags would there be?

PS

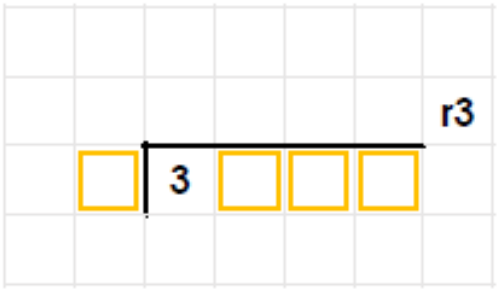
9a. When divided, the number below has a remainder of 1. What was it divided by?





VF

9b. Arrange the number cards below to create a division with a remainder of 3. Discover the number hidden by the splat and complete the calculation.



PS

Challenge

1. Aron is helping his dad prepare party bags for his Bar Mitzvah.

His dad has bought 1,436 sweets to share into party bags to give to the guests to take part in the tradition of sweet throwing at the event.

His dad has bought enough sweets so that there are:

A minimum of 3 sweets per bag	A maximum of 8 sweets per bag	Some sweets left over

Explore the different possible combinations of number of sweets in a party bag, the number of bags made and the remaining sweets that will be left over for the family.

2. Mika and Alissa work at the zoo and are responsible for making sure there is enough space for each animal.

There cannot be more than 9 animals in an enclosure.

There are 3,345 animals in the zoo.

Except one, all the enclosures have an equal number of animals in.

Investigate the different possible number of enclosures that are needed to look after the animals properly.