

Problem solving 1

5

3

1

4

Place all 4 digit cards below:

+

=

?

What is the largest total you can make?
What is the smallest total you can make?

56

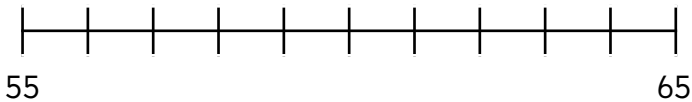
+

=

61

Complete the calculation above.

Represent the calculation on the number line.



Complete the column addition problems.

9

+

2

7

2

1

3

+

4

6

1

1

Match the calculation to its equivalent number bond calculation.

38 + 7

38 + 2 + 3

38 + 6

38 + 3 + 4

38 + 5

38 + 1 + 3

38 + 4

38 + 3 + 3

True or false?

Number sentence	True	False
34 + 47 = 81		
38 + 55 = 95		
65 + 27 = 92		
54 + 29 = 85		

Complete the column addition problems.

+

5

5

9

+

4

7

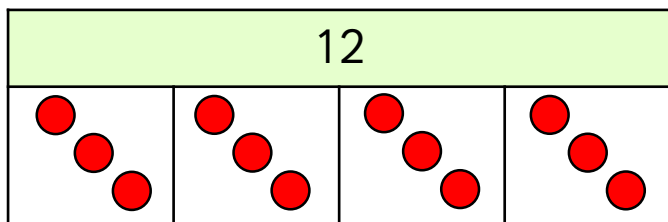
8

Create your own for a partner to solve.

Problem solving 1

The bar model represents the number sentence:

$$12 \div 3 = 4$$



Do you agree? Explain why.

26 marbles are shared equally between 2 jars.

Each jar has 12 marbles in it.

True or false?
Explain your answer.

Sue and Mo have 22p and divide it equally between them.

They get 13p each.



Is this correct?

Explain your answer.

Kat says she has 5 equal groups.

The amount she started with is **greater** than 24 but **less** than 46.

Could Kat have 5 equal groups?
How many different combinations are there?



I can make 3 equal groups from 36?

Is Tam correct?

Prove it.

Matt has 30 apples and shares them equally between 5 friends.

Jess has 30 apples and shares them equally between 10 friends.

Whose friends will receive the most apples?
How do you know?

Answers – Problem solving 1

5

3

1

4

Place all 4 digit cards below:

+

=

?

What is the largest total you can make?
What is the smallest total you can make?
Largest total = $53 + 41 = 94$
Smallest total = $13 + 45 = 58$

56

+

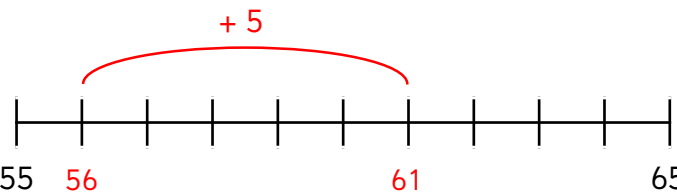
5

=

61

Complete the calculation above.

Represent the calculation on the number line.



Complete the column addition problems.

4

9

2

3

7

2

1

3

5

4

6

8

1

1

Match the calculation to its equivalent number bond calculation.

38 + 7

38 + 2 + 3

38 + 6

38 + 3 + 4

38 + 5

38 + 1 + 3

38 + 4

38 + 3 + 3

True or false?

Number sentence	True	False
$34 + 47 = 81$	✓	
$38 + 55 = 95$		✓
$65 + 27 = 92$	✓	
$54 + 29 = 85$		✓

Complete the column addition problems.

Any total of 5

4

5

5

9

3

Any total of 8

4

7

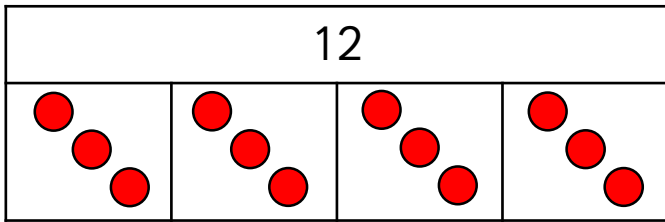
8

Create your own for a partner to solve.

Answers – Problem solving 1

The bar model represents the number sentence:

$$12 \div 3 = 4$$



Do you agree? Explain why.

No, It represents $12 \div 4 = 3$.

The bar model represents 12 shared between 4.

26 marbles are shared equally between 2 jars.

Each jar has 12 marbles in it.

True or false?

False

Explain your answer.

Each jar has 13 marbles each ($26 \div 2 = 13$).

Kat and Jack have 28p and divide it equally between them.

They get 13p each.

Is this correct?

No



Explain your answer.

They will get 14p each ($28 \div 2 = 14$).

Kat says she has 5 equal groups.

The amount she started with is **greater** than 24 but **less** than 46.

Could Kat have 5 equal groups?

How many different combinations are there?

Yes. Kat could have 5 equal groups:

$$\begin{array}{lll} 45 \div 5 = 9, & 40 \div 5 = 8, & 35 \div 5 = 7, \\ 30 \div 5 = 6, & 25 \div 5 = 5. & \end{array}$$



I can make 3 equal groups from 36?

Is Tam correct?

Prove it.

Tam is correct.

There will be 3 equal groups of 12 as

$$36 \div 3 = 12$$

Matt has 30 apples and shares them equally between 5 friends.

Jess has 30 apples and shares them equally between 10 friends.

Whose friends will receive the most apples?
How do you know?

Matt's friends will receive the most with 6 apples each. Whereas, Jess's friends will only receive 3 each.