



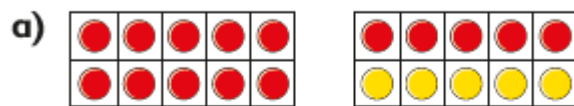
Answer Sheet

Monday

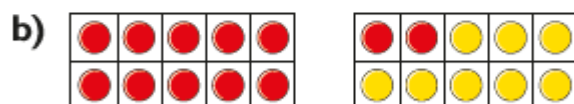
Mild

What calculations are represented?

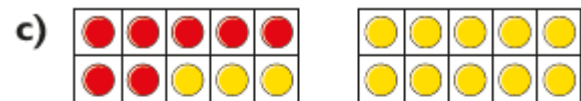
The first one has been done for you.



$$15 + 5 = 20$$



$$\boxed{12} + \boxed{8} = \boxed{20}$$



$$\boxed{7} + \boxed{13} = \boxed{20}$$

Medium

Complete the fact family.

a) $15 + 2 = 17$

$$17 = 15 + 2$$

$$2 + 15 = \boxed{17}$$

$$\boxed{17} = \boxed{2} + \boxed{15}$$

$$17 - 15 = \boxed{2}$$

$$\boxed{2} = \boxed{17} - \boxed{15}$$

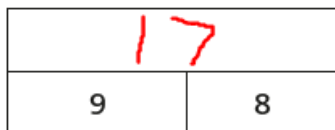
$$\boxed{17} - \boxed{2} = \boxed{15}$$

$$\boxed{15} = \boxed{17} - \boxed{2}$$

b) Rosie is wrong because when we subtract, the biggest number always comes first. The number sentence should be $17 - 2 = 15$.

Spicy

There are 9 boys and 8 girls in a class.
Complete the bar model to represent this.



Write the fact family for the bar model.

$9 + 8 = 17$	$8 + 9 = 17$
$17 - 8 = 9$	$17 - 9 = 8$

Circle any incorrect calculations.

$3 + 7 = 10$

$10 = 3 + 7$

$7 + 3 = 10$

$10 = 7 + 3$

$10 - 7 = 3$

$7 - 3 = 10$

$3 - 10 = 7$

$7 = 10 - 3$

Explain the mistake that has been made.

$3 - 10 = 7$ (10 would need to be the first number as when subtracting, the biggest number **MUST** come first).
 $7 - 3 = 10$ (this should be $7 + 3 = 10$)

$8 - 5 = 3$
$8 - 3 = 5$
$8 = 5 + 3$
$3 = 8 - 5$

Rosie says,



I think that all of these facts are correct because the numbers are related

Ron disagrees.

Who is correct? Can you prove it?

Ron is correct because 8 is not equal to $5 - 3$

Tuesday

Mild

Mo has 4 blue sweets and 3 pink sweets.



Rosie has 4 blue sweets and 5 pink sweets.



Who has more sweets? Rosie

Rosie has more sweets because $4 + 5 = 9$
Mo only has 7 sweets - $4 + 3 = 7$

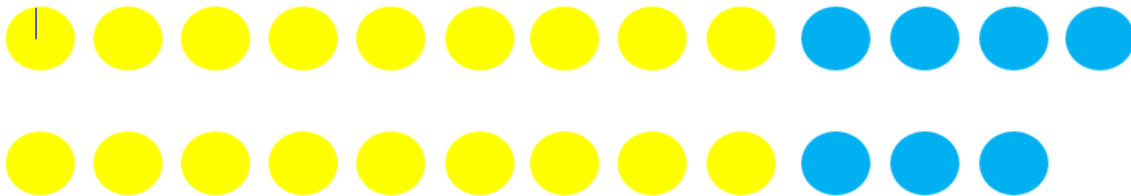
Fill in the circles with either $<$, $>$ or $=$

$6 + 4 \quad \textcircled{<} \quad 6 + 5$

$6 + 4 \quad \textcircled{>} \quad 3 + 6$

$11 - 4 \quad \textcircled{=} \quad 12 - 5$

$11 - 4 \quad \textcircled{<} \quad 12 - 4$



Write $<$, $>$ or $=$ to make the statement correct.

$9 + 3 \quad \textcircled{<} \quad 9 + 4$

Medium

Write $<$, $>$ or $=$ to make the statements correct.

a) $3 + 5 \quad \textcircled{<} \quad 3 + 9$

b) $7 + 2 \quad \textcircled{>} \quad 4 + 2$

c) $10 + 5 \quad \textcircled{=} \quad 9 + 6$

Cross out counters to show $9 - 3$



Cross out counters to show $9 - 4$



Write $<$, $>$ or $=$ to make the statement correct.

$9 - 3 \quad \textcircled{>} \quad 9 - 4$

$$5 + 3 = 6 + 2$$

$$5 + 3 = 2 + 6 = 7 + 1$$

$$7 + 3 = 6 + 4 = 5 + 5$$

Spicy

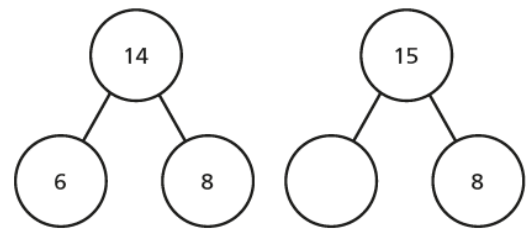
Complete the additions.

a) $4 + 1 = 3 + \boxed{2}$

b) $14 + 1 = 13 + \boxed{2}$

c) $9 + 11 = \boxed{10} + 10$

d) $10 + 9 = \boxed{11} + 8 = 12 + \boxed{7}$



Teddy knows what the missing number is without calculating.

Explain how Teddy knows this.

What is the missing number? 7

Both missing numbers are less than 10

$$7 + \boxed{} < 7 + \boxed{}$$

How many different possible answers can you find?

Lots of different combinations, the left number has to be smaller than the right.

Possible answers:

1 and 2
1 and 3
1 and 4
1 and 5
1 and 6
1 and 7
1 and 8
1 and 9
2 and 3
Etc.

There are three possible combinations:



$$5 + 7 < 10 + 11$$

Children should explain that Mina is correct because she has spotted that the numbers should add up to 9, and that as the first number goes up by one each time, the second number goes down.

$$5 + 10 < 7 + 11$$

Children should spot that each part of the statement should subtract to 9, and that both numbers increase by 1 each time; they should use this pattern to correctly fill in the gaps.

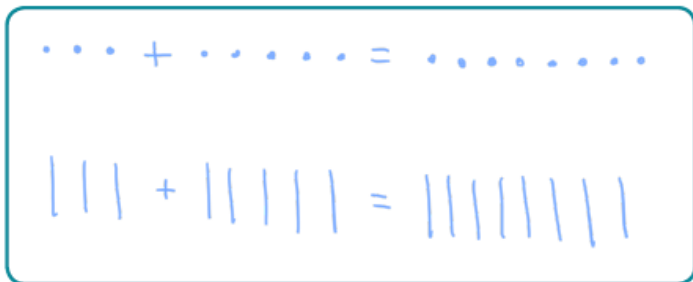
$$5 + 11 < 7 + 10$$

Wednesday

Mild

Use base 10 to show that $3 + 5 = 8$ and $30 + 50 = 80$

Draw your answer.



There is the same amount of counters but the value is different.

What is the same about your models?
What is different?

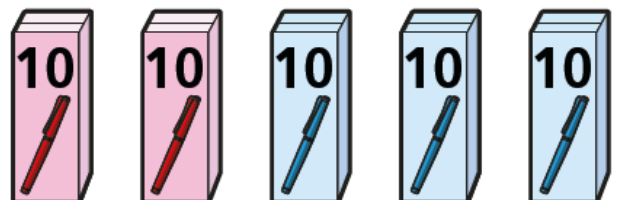
a) Eva has 2 red pens and 3 blue pens.



How many pens does Eva have?

5

b) Tommy has 20 red pens and 30 blue pens.



How many pens does Tommy have?

50

Medium

Fill in the missing numbers in the related facts.

a) $1 + 2 = 3$

$10 + 20 = 30$

b) $7 + 2 = 9$

$70 + 20 = 90$

c) $4 + 6 = 10$

$40 + 60 = 100$

d) $1 + 8 = 9$

$80 + 10 = 90$

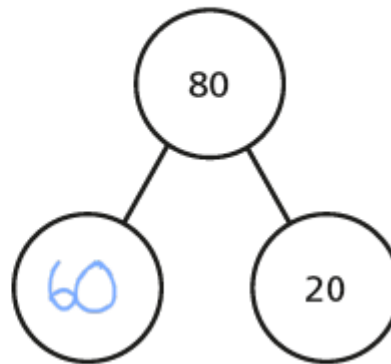
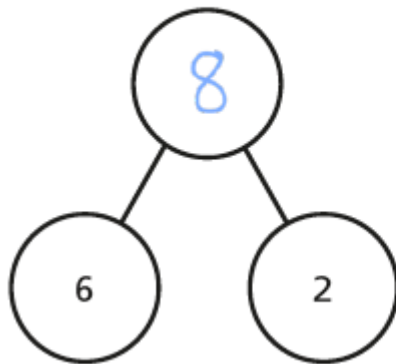
e) $3 + 4 = 7$

$30 + 40 = 70$

f) $8 + 0 = 8$

$0 + 80 = 80$

Complete the part-whole models.



Spicy

Fill in the missing numbers in the related facts.

a) $5 - 3 = 2$

$50 - 30 = 20$

b) $7 - 1 = 6$

$70 - 10 = 60$

c) $10 - 6 = 4$

$100 - 60 = 40$

6



If $3 + 1 = 4$,
then $30 + 10 = 400$ because
there are two zeros.

Do you agree with Dexter? No

Explain your answer.

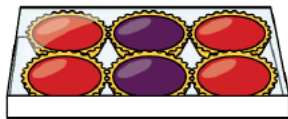
$30 + 10 = 40$ not 400

Base 10: $||| + | = ||||$

Whitney has 3 jam tarts.



Tommy has 6 jam tarts.



Altogether they have 9 jam tarts.

$$3 + 6 = 9$$

So

$$\underline{\quad} + \underline{\quad} = 90$$

What if all of the red jam tarts are eaten?

What if all of the purple jam tarts are eaten?

$$30 + 60 = 90$$

If all of the red tarts are eaten then

$$1 + 2 = 3$$

so

$$10 + 20 = 30$$

If all of the purple tarts are eaten then

$$2 + 4 = 6$$

so

$$20 + 40 = 60$$

Thursday

Mild

a) Jack has 6 cookies.



Annie gives him one more cookie.

How many cookies does he have now?

Jack has 7 cookies now.

Amir has 4 cookies.



He eats one of his cookies.

How many cookies does he have now?

Amir has 3 cookies now.

Complete the number tracks.

a)

21	22	23	24	25	26	27	28
----	----	----	----	----	----	----	----

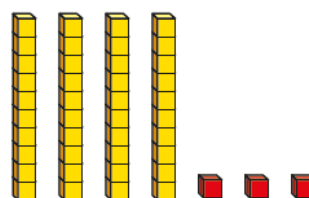
b)

47	46	45	44	43	42	41	40
----	----	----	----	----	----	----	----

c)

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

a) Filip has made a number using base 10



What number has Filip made? 43

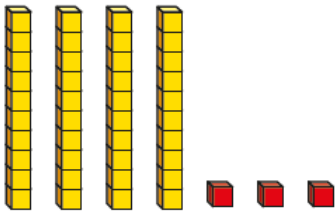
b) Rosie also makes a number using base 10

Rosie's number is one more than Filip's number.

What is Rosie's number? 44

Medium

- a) Filip has made a number using base 10



What number has Filip made?

43

- b) Rosie also makes a number using base 10
Rosie's number is one more than Filip's number.

What is Rosie's number?

44

- c) Ron's number is 2 more than Filip's number.

What is Ron's number?

45

- d) Dora's number is 1 less than Filip's number.

What is Dora's number?

42

Complete the calculations.

a) $14 + 1 =$ 15

e) $19 - 1 =$ 18

b) $22 + 1 =$ 23

f) $33 +$ 1 $= 34$

c) $54 + 1 =$ 55

g) $18 = 19 -$ 1

d) 62 $= 1 + 61$

h) 88 $= 89 - 1$

True or False?

These four calculations have the same answer.

$$1 + 4 + 2$$

$$4 + 2 + 1$$

$$2 + 4 + 1$$

$$4 + 1 + 2$$

True, because they all equal 7 and addition is commutative.

Spicy

Complete the calculations.

a) $14 + 2 =$ 16

e) $19 - 2 =$ 17

b) $22 + 3 =$ 25

f) $33 +$ 2 $= 35$

c) $54 + 4 =$ 58

g) $12 = 19 -$ 7

d) 66 $= 5 + 61$

h) 86 $= 89 - 3$

Are the number sentences true or false?

a) $17 + 1 = 1 + 17$ True

b) $17 - 1 = 1 - 17$ False

These four calculations have the same answer.

$$7 - 3 - 2$$

$$2 - 3 - 7$$

$$3 - 2 - 7$$

$$7 - 2 - 3$$

False, because subtraction isn't commutative.

Jack's house

Annie's house



Jack lives 5 km from school.

Annie lives 4 km from school in the same direction.

What is the distance between Jack and Annie's houses?

After travelling to and from school, Jack thinks that he will walk 1 km more than Annie. Is he correct?

Explain your answer.

What will be the difference in distance walked after 2 school days?

1 km

No, he will walk 2 km further. 1 km on the way to school and 1 km on the way home.

4 km

Friday

Bank Holiday

