Use the inverse relationship between addition and subtraction to check calculations and missing number problems

1. Turn this addition statement into a subtraction statement using the same numbers:

6 + 4 = 10

2. Miley says, "I can check my answer to **7 + 3 = 10** by subtracting **3** from **10**." Is Miley correct? Explain why.

3. Mrs Johnson writes the number statements below on the board. Can you fill in the missing numbers by putting **20** and **8** in the correct place?

20 – 12 = 8 **☐ + 12 = ☐**

4. Luke works out that **5 + 2 = 7**. How can he check his answer using subtraction?

5. Hayley writes an inverse of **30 + 70 = 100**. What number statement might she write?

Name .....

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1. Poppy works out that **5 + 8 = 13**. How could she check her answer using the same numbers and subtraction?

2. Adam knows that **100 – 50 = 50**. Without doing any adding or subtracting, he knows the answer to **50 + 50**. What is his answer?

3. **19 - 7 = 12**. Use this to work out the answer to **7 + 12**.

4. Emerald is trying to work out this number statement:

   10 = 100 - ☐

   What is her answer?

5. Fill in the missing number in this number statement:

   14 = 20 - ☐

Name .....

Name ..... Class ..... Date .....

Recognise and use the inverse relationship between addition and subtraction and use this to check calculations

1 (a) Circle the inverse calculations for **26 + 34 = 60**

60 + 26 = 34

34 – 26 = 60

34 + 26 = 60

60 – 26 = 34

26 + 34 = 60

60 – 34 = 26

(b) Now circle the inverse calculations for **78 – 35 = 43**

35 + 43 = 78

78 – 43 = 35

43 + 35 = 78

43 – 35 = 78

78 + 35 = 43

35 + 78 = 43

2 Check each answer using the inverse operation. Correct the mistakes.

	mistakes	inverse check		correction	
EXAMPLE 4 + 15 =	20	20 – 4 = 16	→	4 + 15 =	19
(a) 6 + 22 =	29	.....	→	.....	
(b) 38 – 5 =	33	.....	→	.....	
(c) 7 + 17 =	24	.....	→	.....	
(d) 43 – 5 =	37	.....	→	.....	

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Recognise and use the inverse relationship between addition and subtraction and use this to solve missing number problems

1 For each of the following calculations, write the inverse calculation.

a) $4 + 8 = 12 \rightarrow$ .....

b) $16 - 7 = 9 \rightarrow$ .....

c) $5 + 27 = 32 \rightarrow$ .....

d) $74 - 23 = 51 \rightarrow$ .....

2 Solve the following.

a) $14 + \square = 20$

b) $\square + 43 = 49$

c) $\square - 6 = 51$

d) $\square - 3 = 84$

e) $56 + \square = 64$

f) $\square - 7 = 28$

g) $\square - 6 = 87$

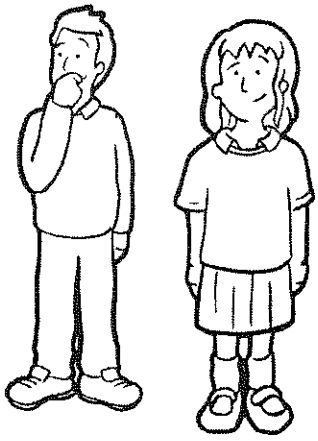
h) $35 + \square = 43$

i) $\square + 54 = 72$

j) $\square - 28 = 66$

k) $\square - 57 = 28$

l) $37 + \square = 82$



3 What was my number?

a) I think of a number and add **23**. My answer is **54**. ☐

b) I think of a number and subtract **12**. My answer is **26**. ☐

c) I think of a number and add **28**. My answer is **53**. ☐

d) I think of a number and subtract **56**. My answer is **38**. ☐