## Addition and Subtraction Bar Model Word Problems

Complete the bar models to solve the word problems. Underneath each bar model, write out the calculation using addition or subtraction. Check your answers using the inverse.

1) On Sunday, I went to team training for 144 minutes and penalty practice for 45 minutes. On Thursday, I went to football training for 111 minutes. What is the difference between the time I spent training on Sunday and on Thursday?

| Sunday $=\ldots$ minutes |  |
| :---: | :---: |
| team training | penalty practice |
| 144 minutes | 45 minutes |

Calculation: $\qquad$
Check with the inverse: $\qquad$

| Sunday $=\ldots$ minutes |  |
| :---: | :---: |
| Thursday $=111$ minutes | Difference $=\ldots \quad$ minutes |

Calculation: $\qquad$

The difference between the time I spent training on Sunday and Thursday is $\qquad$ minutes.

Check with inverse: $\qquad$
2) A football costs $£ 2$. I bought four footballs and I paid with a $£ 10$ note. How much change did I receive?

| $£ 10$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $£ 2$ | $£ 2$ | $£ 2$ | $£ 2$ | change $=$ |  |

Calculations: $\qquad$

I received $\qquad$ in change.

Check with the inverses: $\qquad$
3) The football club bought 50 yellow balls and 125 orange balls. They lost 13 balls over the fence. How many balls do they have left?

| total balls $=$ |  |
| :---: | :---: |
| 50 yellow balls | 125 orange balls |

Calculation: $\qquad$
Check with the inverse: $\qquad$

| total balls $=$ |  |
| :---: | :---: |
| 13 balls lost | balls left $=$ |

Calculation: $\qquad$

The football club have $\qquad$ balls left.

Check with the inverse: $\qquad$
4) There are 137 matches to play this season. The football team have lost 36 matches and won 80 . How many matches do they still have left to play?

| 137 matches |  |  |
| :---: | :---: | :---: |
| 36 lost | 80 won | $\frac{\text { to play }}{}$ |

Calculations: $\qquad$

The team still have $\qquad$ matches left to play.

Check with the inverses: $\qquad$

## Addition and Subtraction Bar Model Word Problems Answers

| Question | Answer |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. |  |  |  |  |  |
|  | Calculations: 144 + $45=189$ $189-111=78$ <br> The difference between the time I spent training on Sunday and Thursday is 78 minutes. $\begin{array}{rll} \text { Check with the inverses: } 189-144=45 & 78+111=189 \\ 189-45=144 & 111+78=189 \end{array}$ |  |  |  |  |
| 2. |  |  |  |  |  |
|  | Calculations: $£ 2+£ 2+£ 2+£ 2=£ 8$ $£ 10-£ 8=£ 2$ <br> I received $\mathbf{£ 2}$ in change. <br> Check with the inverses: $\mathbf{£ 8} \mathbf{- £ 2 - £ 2 - £ 2 = £ 2}$ $£ 2+£ 8=£ 10 \text { or } £ 8+£ 2=£ 10$ |  |  |  |  |

3. 

$$
\text { total balls = } 175
$$

50 yellow balls
125 orange balls

| Total balls $=175$ |  |
| :--- | :---: |
| 13 balls lost | Balls left $=162$ |

Calculations: $50+125=175 \quad 175-13=162$
There are 162 balls left in total.
Check with the inverses: 175-50=125
$162+13=175$

$$
175-125=50 \quad 13+162=175
$$

4. 

137 matches

| 36 lost | 80 won | 21 left <br> to play |
| :---: | :---: | :---: |

Calculations: $36+80=116 \quad 137-116=21$
They still have $\mathbf{2 1}$ games left to play.
Check with the inverses: $116-80=36 \quad 116+21=137$

$$
116-36=80 \quad 21+116=137
$$

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Complete the bar models to solve the word problems. Underneath each bar model, write out the calculation using addition or subtraction. Check your answers using the inverse.

1) Mum drives the football team minibus to the matches. Last month, she drove 86 miles to one match and 167 miles to the other. This month, she drove 182 miles altogether. What is the difference between the miles she drove this month and last month?

| last month $=\ldots$ miles |  |
| :--- | :--- |
|  |  |

$\square$

Calculations: $\qquad$

The difference between last month's and this month's miles is $\qquad$ miles.

Check with the inverses: $\qquad$
2) Football kits for the team cost $£ 23$ each. The team raised $£ 50$ at a charity match. How much more money do they need to raise to afford 3 new kits?
$\square$
$\square$

Calculation: $\qquad$
They need to raise $\qquad$ more to afford 3 new kits.

Check with the inverses: $\qquad$
3) The team trained for 250 minutes on Saturday and 260 minutes on Sunday. How many more minutes do they need to do to hit their target of 1000 minutes' training?
$\square$

Calculation: $\qquad$

Answer: $\qquad$

Check with the inverses: $\qquad$
4) There are 376 matches to play over three seasons. The football team have drawn 98 matches, lost 30 and won 86 . How many games do they still have left to play?
$\square$

Calculation: $\qquad$

Answer: $\qquad$

Check with the inverses: $\qquad$


## Addition and Subtraction Bar Model Word Problems Answers


4.

| 376 matches |  |  |  |
| :---: | :---: | :---: | :---: |
| 98 drawn | 30 <br> lost | 86 won | 162 left to play |

Calculations: $\mathbf{2 5 0}+\mathbf{2 6 0}=\mathbf{5 1 0} \mathbf{1 0 0 0} \mathbf{- 5 1 0 = 4 9 0}$
Answer: They have 162 games still left to play.
Check with the inverses: 214-98-30=86 162+214=376

$$
214-30-86=98 \quad 214+162=376
$$

$$
214-86-98=30
$$

## Addition and Subtraction Bar Model Word Problems

Complete the bar models to solve the word problems. Underneath each bar model, write out the calculation using addition or subtraction. Check your answers using the inverse.

1) The A team spend 1239 minutes training in April and 4312 minutes in May. The B team spend 7894 minutes training altogether in April and May. What is the difference in training time between the $A$ team and the $B$ team?


Calculations: $\qquad$

The difference in training time between the $A$ team and the $B$ team is $\qquad$ minutes.

Check with the inverses: $\qquad$

2) There are 989 footballs in one container and 1459 footballs in another. 1876 balls are used for practice during the season. How many balls are not used?


Calculations: $\qquad$
Answer: $\qquad$
Check with the inverses: $\qquad$
3) A football coach charges $£ 26$ for an hour's session. It also costs $£ 17$ an hour to hire the pitch. How much will it cost the football club to have 3 hours of training?


Calculations: $\qquad$
Answer: $\qquad$
Check with the inverses: $\qquad$
4) The football team have a budget of $£ 4653$ to spend this year. They have spent $£ 3827$ so far. They hold a charity event and raise $£ 560$. How much money do they have left to spend this year?


Calculations: $\qquad$
Answer: $\qquad$
Check with the inverses: $\qquad$

## Addition and Subtraction Bar Model Word Problems Answers




