



Addition and Subtraction to 20 Word Problem Activity Book

Statutory Requirements	Worksheet	Page Number	Notes
Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures.	On the Ball	5-6	
	Running Race	10-11	
Solve problems with addition and subtraction.	Gymnastics Fun	3	
Applying their increasing knowledge of mental and written methods.	First to the Finish Line	8-9	
Recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100.	Rowing for Gold	7	
Add and subtract numbers using concrete objects and pictorial representations and mentally, including:			
A two-digit number and ones.	On Your Marks...	13-14	
A two-digit number and tens.	Get Set...	15-16	
Two two-digit numbers.	Go!	17-18	
Adding three one-digit numbers.	Judging Time!	4	
	Running Race	10-11	
Show that the addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.	Judging the Judo	12	
Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	Judging Time!	4	

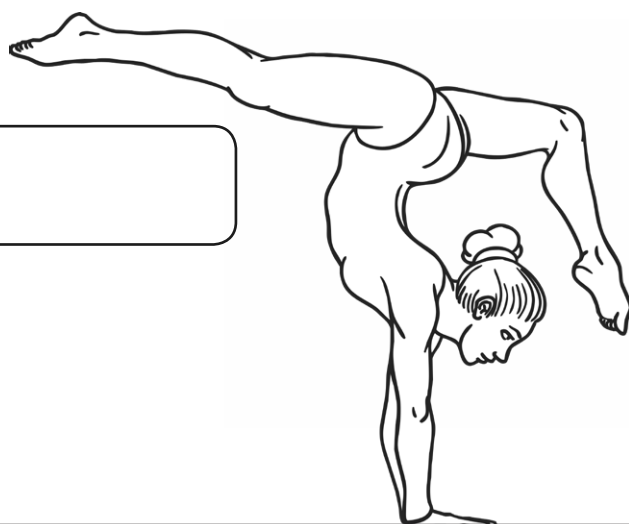
Gymnastics Fun!

Country	Floor	Vault	Beam
Walker, UK	6	2	5
Singh, India	4	5	4
Li, China	3	1	3
Sanchez, Spain	5	4	6
Ivanov, Russia	2	3	2

1. In the gymnastics competition, what did Walker from the UK score after these three events?

2. How much more did Singh score than Ivanov on the vault?

3. There is one more event. To score 20 points overall, how many points would Sanchez need to score in the next event?



Judging Time!

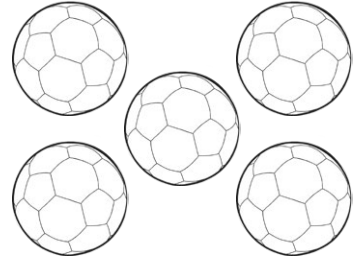
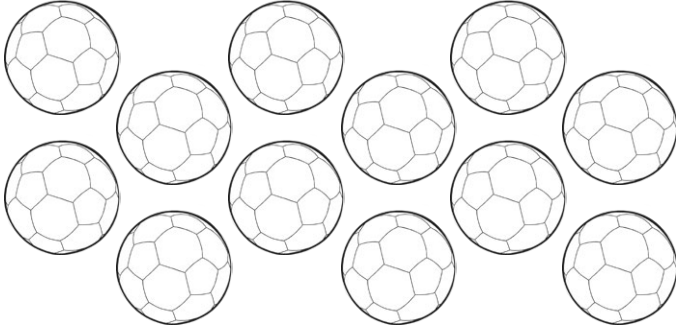
The judges have been scoring the gymnastic competition.
Can you fill in the missing judges' scores to make the total correct?

	Judge A		Judge B		Judge C	
1.	<input type="text" value="12"/>	+	<input type="text"/>	+	<input type="text" value="4"/>	Total = 20
2.	<input type="text"/>	+	<input type="text" value="6"/>	+	<input type="text" value="5"/>	Total = 16
3.	<input type="text" value="3"/>	+	<input type="text" value="8"/>	+	<input type="text"/>	Total = 19



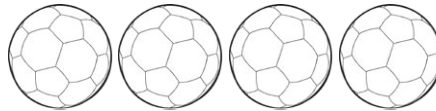
On the Ball

1. In the Olympic football tournament, one striker scored 12 goals and another scored 5 goals for Nigeria. How many did they score altogether?

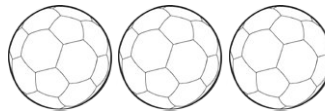


2. These are the results from the first four games for Italy:

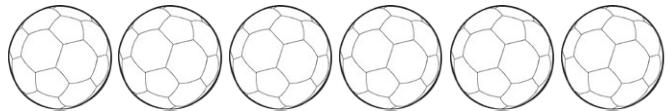
Game 1: Italy win by 4 goals



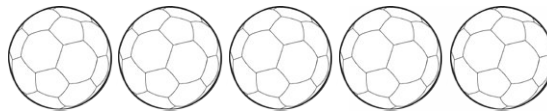
Game 2: Italy win by 3 goals



Game 3: Italy win by 6 goals



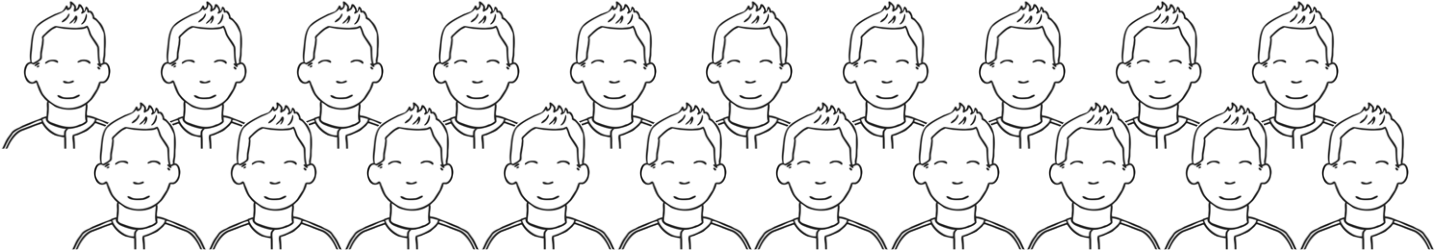
Game 4: Italy win by 5 goals



How many goals have Italy scored in total from their first four games?

On the Ball

3. Germany bring 20 reserve players for the football tournament. 7 of them are injured during a training session. How many players are left to play in the game?



4. Wayne Rooney wears shirt number 10 for England. Cristiano Ronaldo wears number 7 for Portugal. If you add their two shirt numbers together, what would be the total?



5. The referee counts up the number of red and yellow cards used in the tournament. There are 11 yellow cards and 8 red cards. The referee counts 20 cards in total. Is he correct? Explain your answer.

Rowing for Gold!

Can you use your number bonds to help you solve these tricky problems?

Can you find the total for each pair of rower's vests?

1.  +  = 

2.  +  = 

3.  +  = 

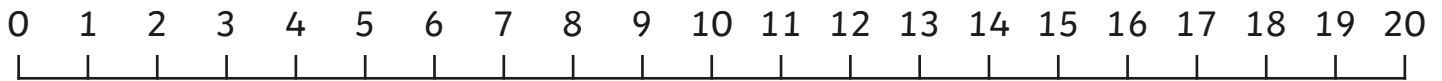
4.  +  = 



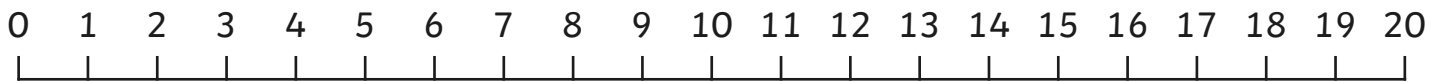
First to the Finish Line

Can you use the number line to help you find the answer to these problems?

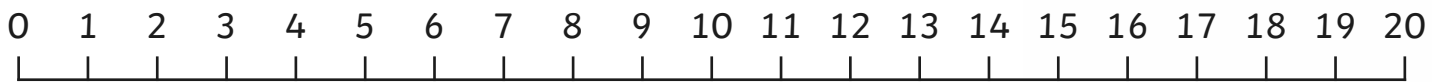
1. A hotel reserved 20 rooms for athletes arriving from Spain. They brought 14 athletes. How many rooms would be left with no one in?



2. 18 boats started the sailing race in the harbour. The weather was rough so 3 boats tipped over and 4 had to return to the start. How many boats finished the race?

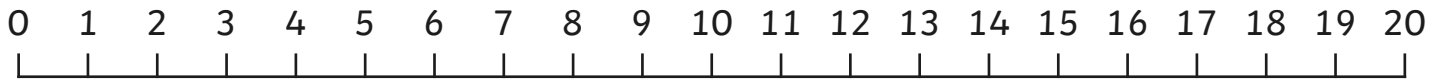


3. The triple jump competition is really close. Petrovich from Poland jumps 3 metres farther than the current world record of 15 metres, to win. How far does he jump?

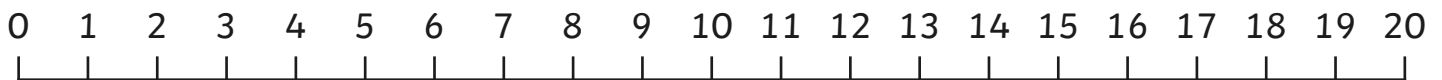


First to the Finish Line

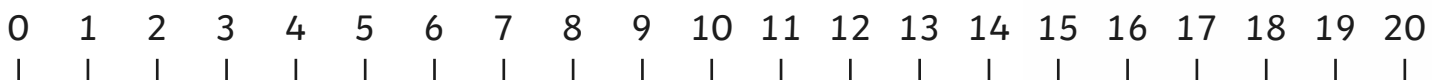
4. In a volleyball match with two teams, there are 6 players on each team and three referees on the court. How many people are on the court altogether?



5. Great Britain are having a great Olympics, winning 14 gold medals with 2 events left. How many medals would they need to win in these events to reach their target of 19 gold medals?



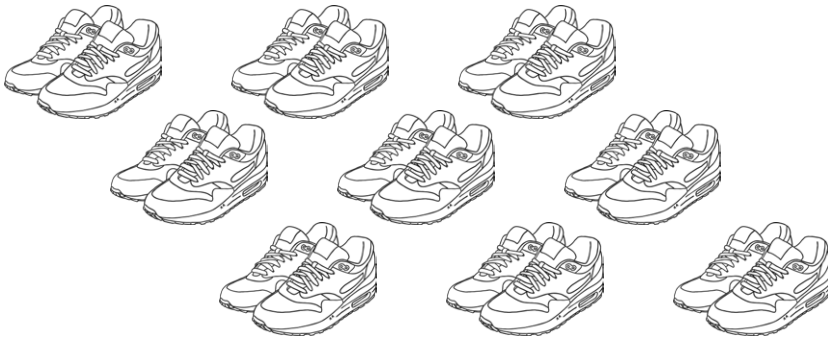
6. In the rowing competition, there are three different races. One is for a boat with 2 people, one is for a boat with 4 people and one is for a boat with 8 people. How many people are needed to fill the boats?



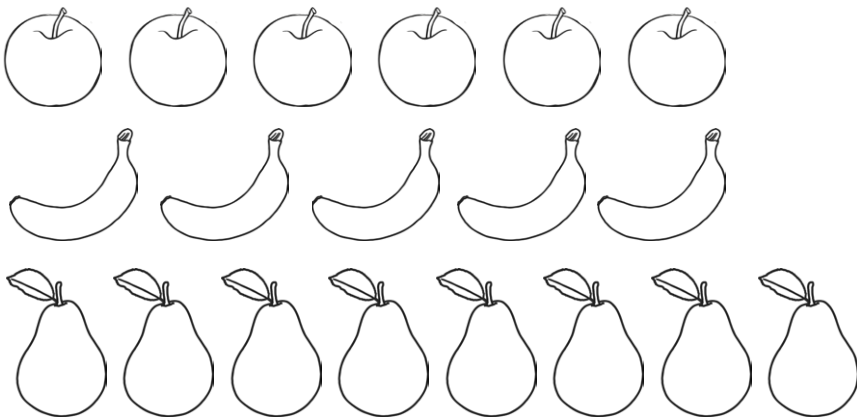
Running Race

Can you find the answers to these questions?

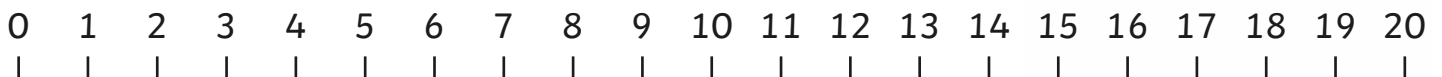
1. There were 9 runners in a race. Each runner had a pair of trainers. How many shoes is that altogether?



2. The runners were given some fruit before they ran. They ate 6 apples, 5 bananas and 8 pears. How much fruit was eaten altogether?

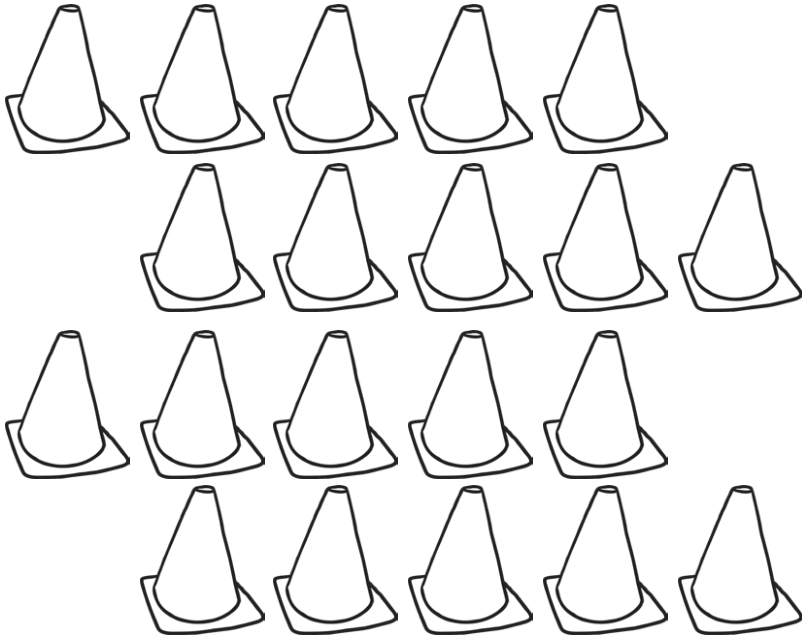


3. The runner in first place finished the 100m sprint in 9 seconds. The runner in sixth place finished 7 seconds later. How many seconds did it take the sixth place runner to run the race?



Running Race

4. There are 20 cones on the track. 8 of them are blown over in the wind. How many cones are left standing?



5. The runners were all wearing different coloured vests. There are 5 plain vests, 3 spotted vests, 2 diamond vests and 7 striped vests. How many vests are there altogether?



Judging the Judo!

Look at these scores and work out which number sentence is correct.

1.

Michael Thomas (Great Britain)

4	6	5
Judge A	Judge B	Judge C

Tick the correct number sentence:

$4 + 5 + 3 = 12$

$4 + 6 + 5 = 11$

$4 + 6 + 5 = 15$

2.

Paulo Vinci (Italy)

2	9	3
Judge A	Judge B	Judge C

Tick the correct number sentence:

$2 + 9 + 3 = 14$

$2 + 3 + 5 = 10$

$2 + 9 + 3 = 18$

3.

Klauss Schmitt (Germany)

7	1	8
Judge A	Judge B	Judge C

Tick the correct number sentence:

$7 + 1 + 8 = 20$

$16 = 7 + 1 + 8$

$7 + 1 + 8 = 15$

4.

Li Xang (China)

5	3	5
Judge A	Judge B	Judge C

Tick the correct number sentence:

$15 = 5 + 3 + 5$

$12 = 5 + 3 + 5$

$13 = 5 + 3 + 5$

On Your Marks...

Can you work out the answers to these Olympic-sized problems?

1. There are 17 athletes in the French swimming team and 9 athletes in the Russian team. How many athletes are there altogether?



2. A discus athlete throws the discus 28 metres. On her second attempt she throws it 9 metres further. How far did she throw the discus the second time?



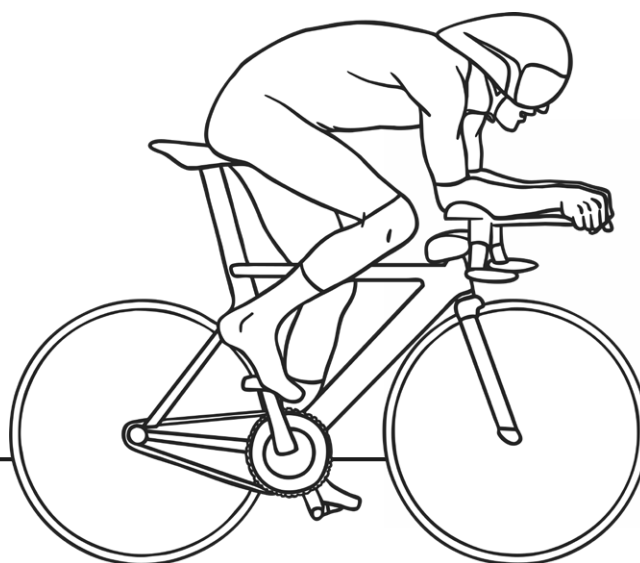
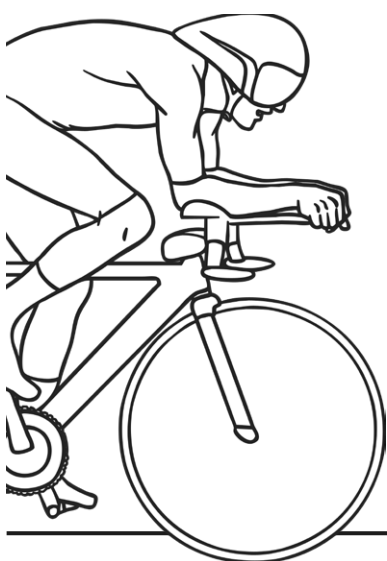
3. Canada have 8 gold medals and 24 silver medals. How many medals do they have altogether?



On Your Marks...

4. The Chinese swimming team are expected to arrive at 16:00. Their coach is running 8 hours late. What time will they arrive?

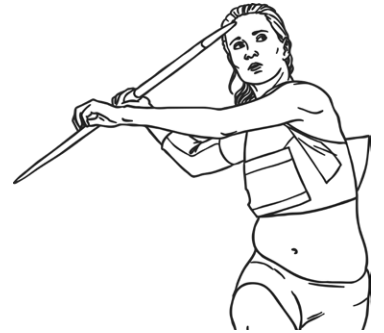
5. A ticket to watch the cycling costs \$34 for an adult and \$8 for a child. How much would it cost for one adult and one child to watch the cycling?



Get Set...

Can you work out the answers to these Olympic-sized problems?

1. A javelin handle measures 43cm long. The point is an extra 10cm. How long is the javelin in total?



2. The Olympic swimming pool measures 50 metres in length. 30 metres of the pool has been cleaned. How much of the pool is left to clean?

3. There are 54 people buying merchandise. 30 of them leave the queue to get some food. How many are left in the queue?

Get Set...

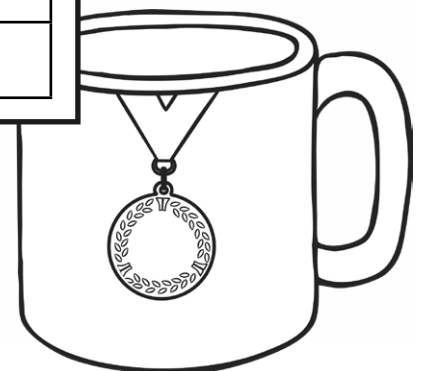
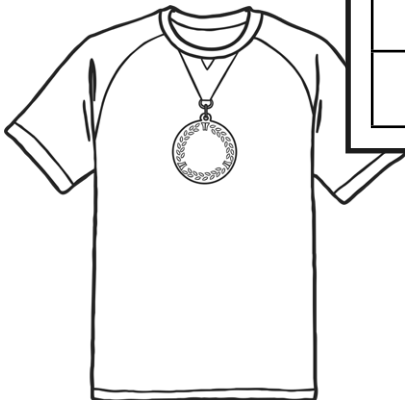
Can you work out the answers to these Olympic-sized problems?

4. There are 23 hot dogs and 40 burgers for sale in the café. How many items of food is that altogether?



5. How much would it cost to buy a T-shirt and a mug?

Merchandise	Price
Brochure	\$17
T-shirt	\$23
Mug	\$10



Go!

Can you work out the answers to these Olympic-sized problems?

1. In the shooting, one competitor scores 42 points. His nearest rival scores 23 points. How many points did he win by?



2. The Australian rugby team has 26 players and the fencing team have 15 members. How many team members are in the rugby and fencing teams altogether?



3. Buses leave the Olympic village with 36 people on board. There are several stops before reaching the stadium. 14 are left by the end of the journey. How many people got off the bus earlier in the journey?



Go!

Can you work out the answers to these Olympic-sized problems?

4. The diving competition has two rounds. In the first round, Kim Smith scores 24 points. In the second round she scores 32 points. What is her overall score?

5. The wrestling competition has reached the final stages. 32 athletes began and so far 18 athletes have been knocked out. How many athletes are left?

