Solve Problems to Specified Degree of Accuracy

Aim: I can solve problems to a specified degree of accuracy

1. Over a season, a football team scores 45 goals in 20 matches. What is the mean number of goals per game, rounded to one decimal place?

2. A school fruit shop takes £27.40 in one school week. Giving the answer to the nearest pound, what is the mean amount taken each day?
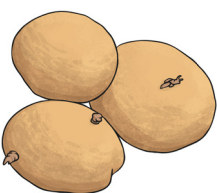
3. A cricket team needs to score 175 runs in 30 overs. What is the average run rate the team needs to score each over, rounding the answer to the nearest run?

4. There are 10 pizzas for a class party. Each pizza is cut into 8 pieces, and is to be shared among 25 children. If shared equally, how many pieces would each child have to eat, rounded to the nearest whole piece?

5. A father grows 271 kg of potatoes. He shares the crop equally between his three neighbours. What weight of potatoes will each neighbour get, to the nearest kilogram?

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Solve Problems to Specified Degree of Accuracy Answer Sheet

Aim: I can solve problems to a specified degree of accuracy

1. Over a season, a football team scores 45 goals in 20 matches. What is the mean number of goals per game, rounded to one decimal place?

2.3 goals

2. A school fruit shop takes £27.40 in one school week. Giving the answer to the nearest pound, what is the mean amount taken each day?

£5

3. A cricket team needs to score 175 runs in 30 overs. What is the average run rate the team needs to score each over, rounding the answer to the nearest run?
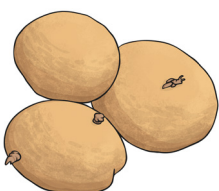
6 runs per over

4. There are 10 pizzas for a class party. Each pizza is cut into 8 pieces, and is to be shared among 25 children. If shared equally, how many pieces would each child have to eat, rounded to the nearest whole piece?

3 pieces

5. A father grows 271 kg of potatoes. He shares the crop equally between his three neighbours. What weight of potatoes will each neighbour get, to the nearest kilogram?

90 kg

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Solve Problems to Specified Degree of Accuracy

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1. Over a season, a football team scores 84 goals in 38 matches. What is the mean number of goals per game, rounded to one decimal place?

2. A school fruit shop takes £34.67 in one school week. Giving the answer to the nearest penny, what is the mean amount taken each day?

3. A cricket team needs to score 258 runs in 50 overs. What is the average run rate the team needs to score each over, rounding the answer to one decimal place?

4. a) There are 12 pizzas for a class party. Each pizza is cut into 8 pieces, and is to be shared among 28 children. If shared equally, how many pieces would each child have to eat, rounded to one decimal place?

   b) As the children only ate whole pieces of pizza, how many were left over?

5. A farmer grows 2478 kg of potatoes. He sells the crop equally between 5 local farm shops. What weight of potatoes will each shop get, to the nearest half a kilogram?
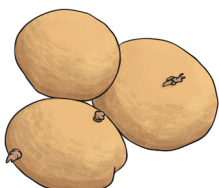
Solve Problems to Specified Degree of Accuracy Answer Sheet

Aim: I can solve problems to a specified degree of accuracy

1. Over a season, a football team scores 84 goals in 38 matches. What is the mean number of goals per game, rounded to one decimal place?

> **2.2 goals**

2. A school fruit shop takes £34.67 in one school week. Giving the answer to the nearest penny, what is the mean amount taken each day?

> **£6.93**

3. A cricket team needs to score 258 runs in 50 overs. What is the average run rate the team needs to score each over, rounding the answer to one decimal place?

> **5.2 runs per over**

4. a) There are 12 pizzas for a class party. Each pizza is cut into 8 pieces, and is to be shared among 28 children. If shared equally, how many pieces would each child have to eat, rounded to one decimal place?
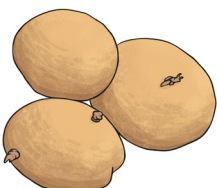
> **3.4 pieces**

b) As the children only ate whole pieces of pizza, how many were left over?

> **12 pieces**

5. A farmer grows 2478 kg of potatoes. He sells the crop equally between 5 local farm shops. What weight of potatoes will each shop get, to the nearest half a kilogram?

> **495.5 kg**

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Solve Problems to Specified Degree of Accuracy

Aim: I can solve problems to a specified degree of accuracy

1. Over a season, a footballer scores 60 goals of which 14 are headers. What percentage of his goals are headers, rounded to one decimal place?

2. A school fruit shop takes £145.09 in four school weeks, although on one day the school was closed. Giving the answer to the nearest penny, what is the mean amount taken each day?

3. A cricket team needs to score 258 runs in 50 overs. After 13 overs they have scored 57 runs. How has the average run rate the team needs to score each over changed from the start to after 13 overs? (Give the answer to 2 decimal places).

4. a) There are 12 pizzas for a class party. Each pizza is cut into 8 pieces, and is to be shared among 27 children. If shared equally, how many pieces would each child have to eat, rounded to two decimal places?

   b) As the children only ate whole pieces of pizza, how many were left over?

5. A farmer grows 2478 kg of potatoes. He sells 45% of the crop to one supermarket chain, and splits the rest between 2 local shops. What weight of potatoes will each customer get, to the nearest half a kilogram?

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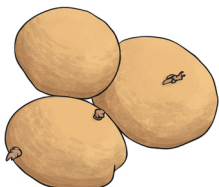
Solve Problems to Specified Degree of Accuracy Answer Sheet

Aim: I can solve problems to a specified degree of accuracy

1. Over a season, a footballer scores 60 goals of which 14 are headers. What percentage of his goals are headers, rounded to one decimal place?

> **23.3%**

2. A school fruit shop takes £145.09 in four school weeks, although on one day the school was closed. Giving the answer to the nearest penny, what is the mean amount taken each day?

> **£7.64 (£145.09 ÷ 19)**

3. A cricket team needs to score 258 runs in 50 overs. After 13 overs they have scored 57 runs. How has the average run rate the team needs to score each over changed from the start to after 13 overs? (Give the answer to 2 decimal places).

> **Increased by 0.27 runs per over**

4. a) There are 12 pizzas for a class party. Each pizza is cut into 8 pieces, and is to be shared among 27 children. If shared equally, how many pieces would each child have to eat, rounded to two decimal places?
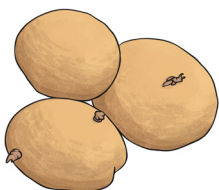
> **3.56 pieces**

   b) As the children only ate whole pieces of pizza, how many were left over?

> **15 pieces**

5. A farmer grows 2478 kg of potatoes. He sells 45% of the crop to one supermarket chain, and splits the rest between 2 local shops. What weight of potatoes will each customer get, to the nearest half a kilogram?

> **1115 kg, 681.5 kg each**

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