

11+ Multi-Step Worded Reasoning

Year 6 · 11+ Exam Practice · 11plus-multistep-reasoning

Name: _____

Date: _____

Class: _____

Score: ____ / ____

Instructions

Answer every question in Practice. Try the Challenge section once Practice is complete. 10 questions in total.

Practice

1. The mean average weight of 4 bags of flour is 16 kg. A 5th bag is added, and the new mean average weight becomes 18 kg. Work out the weight of the 5th bag of flour. You must show your method.

2. The mean average weight of 4 bags of flour is 30 kg. A 5th bag is added, and the new mean average weight becomes 29 kg. Work out the weight of the 5th bag of flour. You must show your method.

3. The mean average weight of 5 bags of flour is 17 kg. A 6th bag is added, and the new mean average weight becomes 19 kg. Work out the weight of the 6th bag of flour. You must show your method.

4. In a storage box, the ratio of black balloons to white balloons is 5 : 6. There are 7 more white balloons than black balloons in the box. Work out the total number of balloons in the box.

5. In a storage box, the ratio of red sweets to yellow sweets is 4 : 5. There are 3 more yellow sweets than red sweets in the box. Work out the total number of sweets in the box.

6. A motorcycle leaves town Fairview at 08:00 and travels directly to town Beacon Hill at a constant average speed of 45 mph, arriving at 11:00. Work out the distance, in miles, between the two towns.

7. A bus leaves town Stonebridge at 12:30 and travels directly to town Riverdale at a constant average speed of 50 mph, arriving at 14:00. Work out the distance, in miles, between the two towns.

8. A delivery van leaves town Oakhaven at 09:15 and travels directly to town Riverdale at a constant average speed of 80 mph, arriving at 10:45. Work out the distance, in miles, between the two towns.

Challenge

1. In a storage box, the ratio of green counters to purple counters is 4 : 7. There are 18 more purple counters than green counters in the box. Work out the total number of counters in the box.

2. Daniel wants to buy a games console which normally costs £200. In a sale, the price is reduced by 40%. At the checkout, Daniel uses a loyalty card to get a further 25% off the sale price. Work out how much Daniel pays in total.
