

dMAT General Academic Module

Quantitative Reasoning Practice Set

10 practice questions applying numbers to real-world scenarios, with a full answer key

Format: 10 questions, single-choice, four options each | Recommended time: 12 minutes | No calculator or notes allowed on the real exam.

- Read the full scenario before calculating. Identify the relationship between the numbers first.
- Set up one simple equation instead of multiple separate calculations where possible.
- Answers and full working are on the last page.

Question 1

A parking garage charges a flat fee of 30 plus 5 for every hour parked. A driver's total bill is 65. How many hours did they park?

- (a) 5 hours
- (b) 6 hours
- (c) 7 hours
- (d) 8 hours

Question 2

A taxi charges a base fare of 50 plus 12 per kilometre. A ride costs 134 in total. How far was the ride?

- (a) 6 km
- (b) 7 km
- (c) 8 km
- (d) 9 km

Question 3

A shop sells notebooks at 3 for 90. What would 7 notebooks cost at the same rate?

- (a) 180
- (b) 200
- (c) 210
- (d) 240

Question 4

A tank holds water and fills at a rate of 25 litres per minute. Starting from empty, how long does it take to reach 375 litres?

- (a) 12 minutes
- (b) 15 minutes
- (c) 18 minutes
- (d) 20 minutes

Question 5

Event tickets cost 200 for an adult and half price for a child. What is the total cost for 3 adults and 2 children?

- (a) 700
- (b) 750
- (c) 800
- (d) 850

Question 6

A car travels 60 km in 45 minutes at a constant speed. At the same speed, how far will it travel in 90 minutes?

- (a) 100 km
- (b) 110 km
- (c) 120 km
- (d) 130 km

Question 7

A recipe requires 250 grams of flour for 4 servings. How much flour is needed for 10 servings at the same ratio?

- (a) 525 g
- (b) 600 g
- (c) 625 g
- (d) 650 g

Question 8

A gym membership costs 500 as a one-time joining fee plus 50 per month. What is the total cost after 8 months?

- (a) 850
- (b) 880
- (c) 900
- (d) 950

Question 9

A book's original price is 800. It is sold at a 15% discount. What is the sale price?

- (a) 640
- (b) 660
- (c) 680
- (d) 700

Question 10

A group trip costs 40 per person for a group of 6, but a group discount reduces the total bill by 60. What is the final amount paid?

- (a) 160
- (b) 170
- (c) 180
- (d) 190

Answer Key & Full Working

Question 1 Answer: (c) 7 hours

Subtract the fixed fee first: $65 - 30 = 35$. Then divide by the hourly rate: $35 \div 5 = 7$ hours.

Question 2 Answer: (b) 7 km

Subtract the base fare: $134 - 50 = 84$. Then divide by the per-km rate: $84 \div 12 = 7$ km.

Question 3 Answer: (c) 210

Find the per-notebook cost: $90 \div 3 = 30$. Then multiply by 7: $30 \times 7 = 210$.

Question 4 Answer: (b) 15 minutes

Divide the target volume by the fill rate: $375 \div 25 = 15$ minutes.

Question 5 Answer: (c) 800

3 adults cost $3 \times 200 = 600$. 2 children cost $2 \times 100 = 200$. Total = 800.

Question 6 Answer: (c) 120 km

90 minutes is twice 45 minutes, so distance doubles: $60 \times 2 = 120$ km.

Question 7 Answer: (c) 625 g

Find the per-serving amount: $250 \div 4 = 62.5$ g. Multiply by 10 servings: 625 g.

Question 8 Answer: (c) 900

500 (joining fee) + $(50 \times 8 \text{ months}) = 500 + 400 = 900$.

Question 9 Answer: (c) 680

15% of 800 is 120. Subtract from the original price: $800 - 120 = 680$.

Question 10 Answer: (c) 180

$6 \text{ people} \times 40 = 240$. Subtract the group discount: $240 - 60 = 180$.