2.2-2 Four Operations (Worded): Practice Set 2: 30-minute Pack

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A minibus company has 6 minibuses. Each minibus can carry 19 passengers. Work out the total number of passengers the 6 minibuses can carry.

(1)

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2 In a cross-country race, Simran finished in 87 minutes and Callum finished in 68 minutes. Calculate how many minutes faster Callum finished than Simran.

(2)

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3 Femi saves £12 every week towards a games console costing £216. Calculate how many weeks Femi needs to save for the games console.

(2)

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4 Kofi pays for a magazine costing £4.65 with a £5 note. Calculate Kofi's change.

(2)

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5 A cyclist rides 168 km in 4 hours at a steady speed.

(a) Work out the speed of the cyclist in km/h. **(1)**

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(b) Using this steady speed, work out how far the cyclist would ride in 7 hours. **(2)**

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6 A sponsored walk raised £972 for charity. The money is shared equally between 6 local charities.

(a) Work out how much money each charity receives. **(2)**

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(b) One charity spends £45 of its share on new equipment. Work out how much that charity has left. **(1)**

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7 A theatre has 21 rows of seats. Each row has 26 seats.

(a) Work out the total number of seats in the theatre. **(2)**

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(b) For a sold-out show, 511 tickets are sold. Work out how many seats remain empty. **(1)**

.....

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8 A market trader buys 84 kg of apples for £75.60. She plans to repack the apples into small bags that each hold 600 g.

(a) Work out the cost per kilogram of the apples. **(2)**

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(b) Work out how many 600 g bags she can fill from the 84 kg of apples. **(2)**

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9 A printer produces 4172 leaflets. The leaflets are packed into boxes that each hold 36 leaflets.

(a) Work out how many boxes can be completely filled. **(2)**

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(b) Work out how many leaflets are left over once the full boxes have been packed. **(2)**

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10 A bakery uses 240 g of flour to make a batch of 20 muffins. The bakery needs to make 145 muffins for a school fair, using the same recipe.

(a) Work out how much flour is needed, in grams, to make 145 muffins. **(2)**

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(b) The flour is bought in bags that each contain 500 g. Work out the least number of bags the bakery must buy to have enough flour. **(2)**

.....

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11 Grace thinks of a number. She subtracts 14 from it, then divides the result by 3. Her answer is 22. Calculate the number Grace first thought of.

(3)

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12 A school running club sells reusable water bottles to raise funds. Each bottle costs the club £2.35 to buy and is sold for £5.00.

(a) The club buys 140 bottles and sells all of them. Work out the total profit made from selling the bottles. **(2)**

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(b) The club donates 60% of this profit to a local charity. Work out how much money is donated. **(2)**

.....

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Mark scheme · 2.2-2 Four Operations (Worded): Practice Set 2: 30-minute Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

114 cao	**B1**
Answer: 114 passengers	

Question 2

87 - 68 set up, or equivalent complete method	**M1**
19 (minutes) cao	**A1**
Answer: 19 minutes	

Question 3

216 / 12 seen, or repeated addition of 12 to 216	**M1**
18 (weeks) cao	**A1**
Answer: 18 weeks	

Question 4

5.00 - 4.65 set up, or equivalent complete method	**M1**
£0.35 cao	**A1**
Answer: 35p	

Question 5

(a) 42 (km/h) cao	**B1**
(a) Answer: 42 km/h	
(b) 42 x 7, ft from (a)	**M1**
(b) 294 (km) cao	**A1**
(b) Answer: 294 km	

Question 6

(a) 972 / 6 seen, or equivalent complete method	**M1**
(a) £162 cao	**A1**
(a) Answer: £162	
(b) £117 ft from (a)	**B1**
(b) Answer: £117	

Question 7

(a) 21 x 26 seen, or equivalent complete method	**M1**
(a) 546 cao	**A1**
(a) Answer: 546 seats	
(b) 35 ft from (a)	**B1**
(b) Answer: 35 seats	

Question 8

(a) 75.60 / 84 seen, or equivalent complete method	**M1**
(a) £0.90 cao	**A1**
(a) Answer: £0.90 per kg	
(b) 84000 / 600 seen, with correct conversion of 84 kg to grams	**M1**
(b) 140 cao	**A1**
(b) Answer: 140 bags	

Question 9

(a) 4172 / 36 (= 115.8...) seen	**M1**
(a) 115 cao (rounded down, not up)	**A1**
(a) Answer: 115 boxes	
(b) 4172 - (115 x 36), ft from (a)	**M1**
(b) 32 cao	**A1**
(b) Answer: 32 leaflets	

Question 10

(a) 240 / 20 (= 12) seen, or equivalent scaling method	**M1**
(a) 1740 (g) cao	**A1**
(a) Answer: 1740 g	
(b) 1740 / 500 (= 3.48) seen, ft from (a)	**M1**
(b) 4 cao (rounded up, not truncated)	**A1**
(b) Answer: 4 bags	

Question 11

22 x 3 (= 66) as the correct first inverse step	**M1**
66 + 14, dependent on first M1	**M1**
80 cao	**A1**
Answer: 80	

Question 12

(a) 140 x (5.00 - 2.35) seen, or equivalent complete method	**M1**
(a) £371.00 cao	**A1**
(a) Answer: £371.00	
(b) 0.6 x 371, ft from (a)	**M1**
(b) £222.60 cao	**A1**
(b) Answer: £222.60	

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