2.6-3 Ratio and Proportion: Practice Set 3: 30-minute Pack

Total Marks

GL ASSESSMENT EP.M50 · Calculators not allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Yusuf's map has a scale of 1:5,000. A path is 1 km long in real life. How long is the path on the map, in cm?

- ☐ A) 20 cm
- ☐ B) 200 cm
- ☐ C) 21 cm
- ☐ D) 19 cm
- ☐ E) 2 cm

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2 Zainab's map has a scale of 1:100,000. Two villages are 12 cm apart on the map. What is the real distance between them in metres?

- ☐ A) 100,012 m
- ☐ B) 12,000 m
- ☐ C) 1,200,000 m
- ☐ D) 12,001 m
- ☐ E) 120,000 m

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3 Niamh's map has a scale of 1:100,000. Two villages are 2.5 cm apart on the map. What is the real distance between them in kilometres?

- ☐ A) 0.25 km
- ☐ B) 25 km
- ☐ C) 2.5 km
- ☐ D) 100,002.5 km
- ☐ E) 250,000 km

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4 Amara's map has a scale of 1:50,000. Two villages are 12 cm apart on the map. What is the real distance between them in metres?

- [ ] A) 5,999 m
- [ ] B) 6,001 m
- [ ] C) 6,000 m
- [ ] D) 600,000 m
- [ ] E) 60,000 m

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5 Kofi's map has a scale of 1:100,000. A path is 4 km long in real life. How long is the path on the map, in cm?

- [ ] A) 5 cm
- [ ] B) 4 cm
- [ ] C) 0.4 cm
- [ ] D) 40 cm
- [ ] E) 3 cm

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6 Ewan's map has a scale of 1:25,000. Two villages are 5 cm apart on the map. What is the real distance between them in metres?

- [ ] A) 125 m
- [ ] B) 125,000 m
- [ ] C) 12,500 m
- [ ] D) 1,249 m
- [ ] E) 1,250 m

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7 Hamza's map has a scale of 1:5,000. Two villages are 3 cm apart on the map. What is the real distance between them in kilometres?

- [ ] A) 0.15 km
- [ ] B) 1.15 km
- [ ] C) 0.015 km
- [ ] D) 1.5 km
- [ ] E) 15,000 km

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8 Anya's map has a scale of 1:25,000. A path is 3 km long in real life. How long is the path on the map, in cm?

- [ ] A) 75,000 cm
- [ ] B) 120 cm
- [ ] C) 7,500,000,000 cm
- [ ] D) 12 cm
- [ ] E) 1.2 cm

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9 Anya's map has a scale of 1:100,000. A path is 8 km long in real life. How long is the path on the map, in cm?

- [ ] A) 8 cm
- [ ] B) 7 cm
- [ ] C) 0.8 cm
- [ ] D) 80 cm
- [ ] E) 0.08 cm

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10 Leo's map has a scale of 1:50,000. Two villages are 4 cm apart on the map. What is the real distance between them in metres?

- [ ] A) 20,000 m
- [ ] B) 200 m
- [ ] C) 50,004 m
- [ ] D) 2,000 m
- [ ] E) 200,000 m

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11 Ewan's map has a scale of 1:100,000. Two villages are 7 cm apart on the map. What is the real distance between them in kilometres?

- [ ] A) 70 km
- [ ] B) 6 km
- [ ] C) 7 km
- [ ] D) 0.7 km
- [ ] E) 700,000 km

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12 Zainab's map has a scale of 1:25,000. Two villages are 4 cm apart on the map. What is the real distance between them in metres?

- [ ] A) 25,004 m
- [ ] B) 1,000 m
- [ ] C) 10,000 m
- [ ] D) 100,000 m
- [ ] E) 1,001 m

---

13 Callum's map has a scale of 1:100,000. Two villages are 12 cm apart on the map. What is the real distance between them in kilometres?

- [ ] A) 100,012 km
- [ ] B) 120 km
- [ ] C) 12 km
- [ ] D) 11 km
- [ ] E) 1,200,000 km

---

14 Zainab's map has a scale of 1:5,000. Two villages are 6 cm apart on the map. What is the real distance between them in kilometres?

- [ ] A) 5,006 km
- [ ] B) 3 km
- [ ] C) 0.03 km
- [ ] D) 30,000 km
- [ ] E) 0.3 km

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15 Amara's map has a scale of 1:2,000. Two villages are 5 cm apart on the map. What is the real distance between them in kilometres?

- [ ] A) 1.1 km
- [ ] B) 0.1 km
- [ ] C) 2,005 km
- [ ] D) 10,000 km
- [ ] E) 1 km

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16 Arjun's map has a scale of 1:5,000. Two villages are 3 cm apart on the map. What is the real distance between them in metres?

- [ ] A) 151 m
- [ ] B) 5,003 m
- [ ] C) 1,500 m
- [ ] D) 150 m
- [ ] E) 15,000 m

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17 Tom's map has a scale of 1:100,000. Two villages are 3.5 cm apart on the map. What is the real distance between them in kilometres?

- [ ] A) 3.5 km
- [ ] B) 35 km
- [ ] C) 2.5 km
- [ ] D) 350,000 km
- [ ] E) 4.5 km

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18 Mei's map has a scale of 1:100,000. A path is 5 km long in real life. How long is the path on the map, in cm?

- [ ] A) 50 cm
- [ ] B) 4 cm
- [ ] C) 0.5 cm
- [ ] D) 6 cm
- [ ] E) 5 cm

---

19 Arjun's map has a scale of 1:50,000. A path is 2 km long in real life. How long is the path on the map, in cm?

- [ ] A) 5 cm
- [ ] B) 4 cm
- [ ] C) 0.4 cm
- [ ] D) 0.04 cm
- [ ] E) 40 cm

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20 Rhys's map has a scale of 1:10,000. Two villages are 3 cm apart on the map. What is the real distance between them in metres?

- [ ] A) 3,000 m
- [ ] B) 301 m
- [ ] C) 300 m
- [ ] D) 30,000 m
- [ ] E) 299 m

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21 Lily's map has a scale of 1:2,000. Two villages are 24 cm apart on the map. What is the real distance between them in metres?

- [ ] A) 48 m
- [ ] B) 480 m
- [ ] C) 48,000 m
- [ ] D) 2,024 m
- [ ] E) 4,800 m

---

22 Sana's map has a scale of 1:2,000. Two villages are 10 cm apart on the map. What is the real distance between them in metres?

- [ ] A) 200 m
- [ ] B) 199 m
- [ ] C) 20,000 m
- [ ] D) 2,000 m
- [ ] E) 2,010 m

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23 A car uses fuel at a constant rate. It uses 6 litres of fuel to travel 84 km. How far can it travel on 10 litres of fuel at the same rate?

- [ ] A) 126 km
- [ ] B) 140 km
- [ ] C) 150 km
- [ ] D) 168 km

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24 Imogen's map has a scale of 1:10,000. Two villages are 24 cm apart on the map. What is the real distance between them in kilometres?

- [ ] A) 240,000 km
- [ ] B) 24 km
- [ ] C) 3.4 km
- [ ] D) 2.4 km
- [ ] E) 1.4 km

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25 Tom's map has a scale of 1:20,000. Two villages are 2 cm apart on the map. What is the real distance between them in kilometres?

- [ ] A) 40,000 km
- [ ] B) 4 km
- [ ] C) 0.04 km
- [ ] D) 20,002 km
- [ ] E) 0.4 km

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26 Leo's map has a scale of 1:5,000. A path is 2 km long in real life. How long is the path on the map, in cm?

- [ ] A) 400 cm
- [ ] B) 1,000,000,000 cm
- [ ] C) 41 cm
- [ ] D) 40 cm
- [ ] E) 4 cm

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27 Kofi's map has a scale of 1:20,000. Two villages are 15 cm apart on the map. What is the real distance between them in kilometres?

- [ ] A) 0.3 km
- [ ] B) 3 km
- [ ] C) 2 km
- [ ] D) 300,000 km
- [ ] E) 30 km

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28 Anya's map has a scale of 1:25,000. Two villages are 2 cm apart on the map. What is the real distance between them in metres?

- ☐ A) 5,000 m
- ☐ B) 501 m
- ☐ C) 500 m
- ☐ D) 499 m
- ☐ E) 50,000 m

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29 Esme's map has a scale of 1:20,000. Two villages are 4.5 cm apart on the map. What is the real distance between them in metres?

- ☐ A) 9,000 m
- ☐ B) 90,000 m
- ☐ C) 90 m
- ☐ D) 901 m
- ☐ E) 900 m

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30 Two numbers are in the ratio 5 : 9. Their difference is 32. Calculate the sum of the two numbers.

(3)

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Mark scheme · 2.6-3 Ratio and Proportion: Practice Set 3: 30-minute Pack

Question 1

correct option A (20 cm) cao **B1**

Answer: A) 20 cm

Question 2

correct option B (12,000 m) cao **B1**

Answer: B) 12,000 m

Question 3

correct option C (2.5 km) cao **B1**

Answer: C) 2.5 km

Question 4

correct option C (6,000 m) cao **B1**

Answer: C) 6,000 m

Question 5

correct option B (4 cm) cao **B1**

Answer: B) 4 cm

Question 6

correct option E (1,250 m) cao **B1**

Answer: E) 1,250 m

Question 7

correct option A (0.15 km) cao **B1**

Answer: A) 0.15 km

Question 8

correct option D (12 cm) cao **B1**

Answer: D) 12 cm

Question 9

correct option A (8 cm) cao **B1**

Answer: A) 8 cm

Question 10

correct option D (2,000 m) cao **B1**

Answer: D) 2,000 m

Question 11

correct option C (7 km) cao **B1**

Answer: C) 7 km

Question 12

correct option B (1,000 m) cao **B1**

Answer: B) 1,000 m

Question 13

correct option C (12 km) cao **B1**

Answer: C) 12 km

Question 14

correct option E (0.3 km) cao **B1**

Answer: E) 0.3 km

Question 15

correct option B (0.1 km) cao **B1**

Answer: B) 0.1 km

Question 16

correct option D (150 m) cao **B1**

Answer: D) 150 m

Question 17

correct option A (3.5 km) cao **B1**

Answer: A) 3.5 km

Question 18

correct option E (5 cm) cao **B1**

Answer: E) 5 cm

Question 19

correct option B (4 cm) cao **B1**

Answer: B) 4 cm

Question 20

correct option C (300 m) cao **B1**

Answer: C) 300 m

Question 21

correct option B (480 m) cao **B1**

Answer: B) 480 m

Question 22

correct option A (200 m) cao **B1**

Answer: A) 200 m

Question 23

B (140 km) cao **B1**

Answer: B) 140 km

Question 24

correct option D (2.4 km) cao **B1**

Answer: D) 2.4 km

Question 25

correct option E (0.4 km) cao **B1**

Answer: E) 0.4 km

Question 26

correct option D (40 cm) cao **B1**

Answer: D) 40 cm

Question 27

correct option B (3 km) cao **B1**

Answer: B) 3 km

Question 28

correct option C (500 m) cao **B1**

Answer: C) 500 m

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Question 29

correct option E (900 m) cao	**B1**

Answer: E) 900 m

Question 30

difference in parts found (9 - 5 = 4) and unit value found: 32/4 = 8	**M1**
dep: the two numbers found (5 x 8 = 40, 9 x 8 = 72)	**M1**
112 cao	**A1**

Answer: 112

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