7.2 Measurement: Length, Mass and Capacity: 2-hour Pack

Calculators not allowed · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Convert 900 cm to m.

Answer: ___ m

(1)

---

2 Convert 25 m to mm.

Answer: ___ mm

(1)

---

3 A jug holds 1 litres of juice. Uma pours it into glasses that each hold 200 ml.

How many glasses can be filled?

Answer: ___

(2)

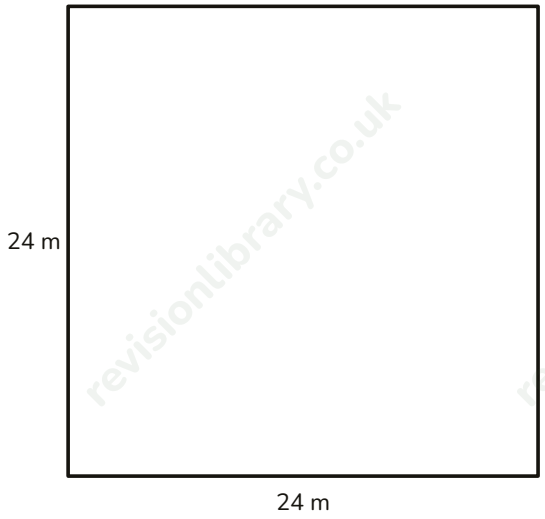
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4 A square has sides of length 24 m.

What is its perimeter?

Answer: ___ m

Diagram NOT accurately drawn



(1)

---

5 Poppy buys a bag of potatoes weighing 2.9 kg and a bag of carrots weighing 207 g.

What is the total mass in kg?

Answer: ___ kg

(2)

---

6 A rectangle is 20 m long and 15 m wide.

What is its perimeter?

Answer: ___ m

(1)

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7 Convert 300 cm to m.

Answer: ___ m

(1)

---

8 A rectangle is 25 m long and 6 m wide.

What is its perimeter?

Answer: ___ m

(2)

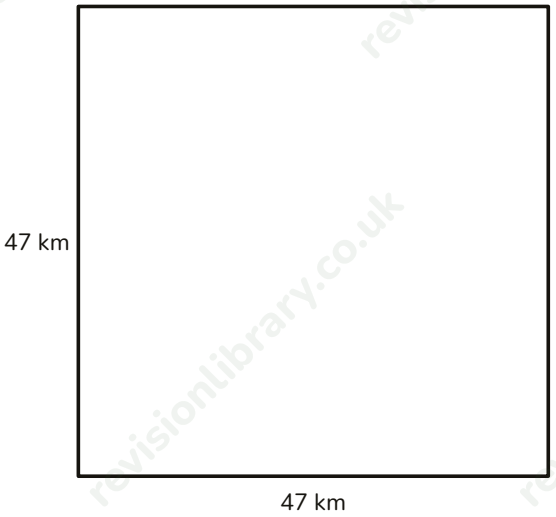
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9 A square has sides of length 47 km.

What is its perimeter?

Answer: ___ km

Diagram NOT accurately drawn



(1)

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10 Bella buys a bag of potatoes weighing 2.7 kg and a bag of carrots weighing 442 g.

What is the total mass in kg?

Answer: ___ kg

(2)

---

11 A scale in ml has big marks every 20 ml, with 10 equal small divisions between each big mark. The first big mark is 100. The pointer is 6 small divisions after the second big mark.

What is the reading?

Answer: ___ ml

(2)

---

12 A scale in ml has big marks every 20 ml, with 10 equal small divisions between each big mark. The first big mark is 120. The pointer is 9 small divisions after the second big mark.

What is the reading?

Answer: ___ ml

(1)

---

13 A scale in ml has big marks every 50 ml, with 5 equal small divisions between each big mark. The first big mark is 100. The pointer is 3 small divisions after the second big mark.

What is the reading?

Answer: ___ ml

(2)

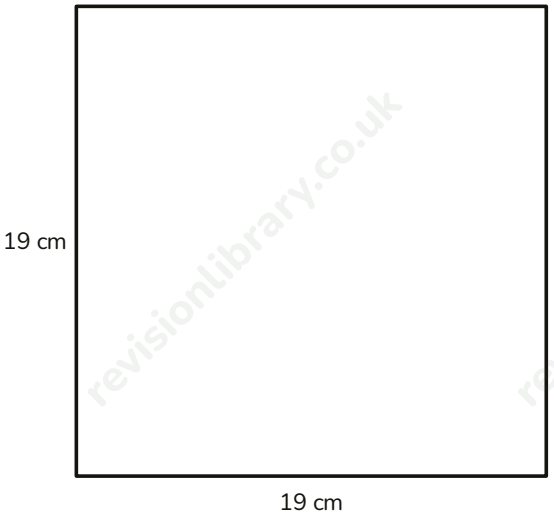
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14 A square has sides of length 19 cm.

What is its perimeter?

Answer: ___ cm

Diagram NOT accurately drawn



(1)

---

15 A ribbon is 2 m 15 cm long. Lucy cuts off 80 cm. How much ribbon is left? Give your answer in metres and centimetres.

(2)

---

16 Convert 35,000 mm to m.

Answer: ___ m

(1)

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17 A ribbon is 5 m long. Callum cuts it into pieces that are each 25 cm long.

How many pieces does Callum cut?

Answer: ___

(2)

---

18 Convert 16 kg to g.

Answer: ___ g

(1)

---

19 Convert 37 cm to mm.

Answer: ___ mm

(1)

---

20 A scale in ml has big marks every 25 ml, with 5 equal small divisions between each big mark. The first big mark is 150. The pointer is 4 small divisions after the second big mark.

What is the reading?

Answer: ___ ml

(2)

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21 Which is bigger, 4.6 litres or 4,943 ml?

Answer: ___

(2)

22 Which is bigger, 8.8 m or 967 cm?

Answer: ___

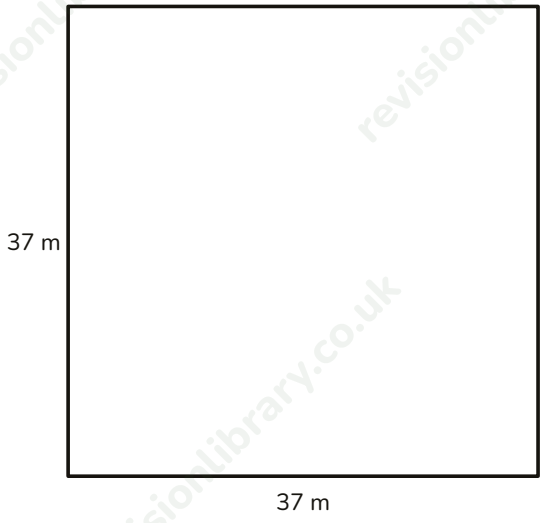
(1)

23 A square has sides of length 37 m.

What is its perimeter?

Answer: ___ m

Diagram NOT accurately drawn



(1)

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24 Convert 29,000 g to kg.

Answer: ___ kg

(1)

---

25 Convert 10,000 ml to litres.

Answer: ___ litres

(1)

---

26 Convert 3,000 g to kg.

Answer: ___ kg

(1)

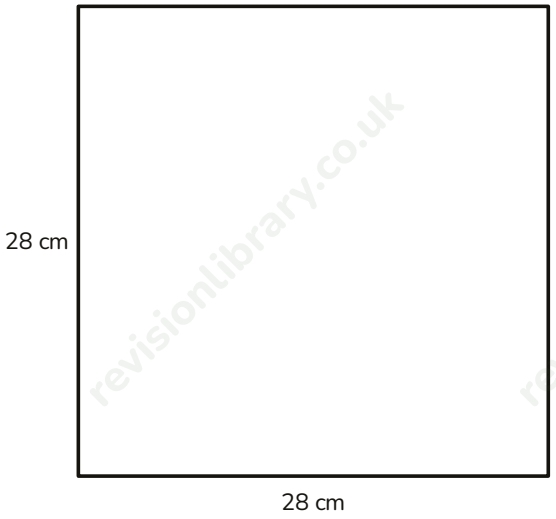
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27 A square has sides of length 28 cm.

What is its perimeter?

Answer: ___ cm

Diagram NOT accurately drawn



(1)

28 Mia buys a bag of potatoes weighing 4.3 kg and a bag of carrots weighing 648 g.

What is the total mass in kg?

Answer: ___ kg

(2)

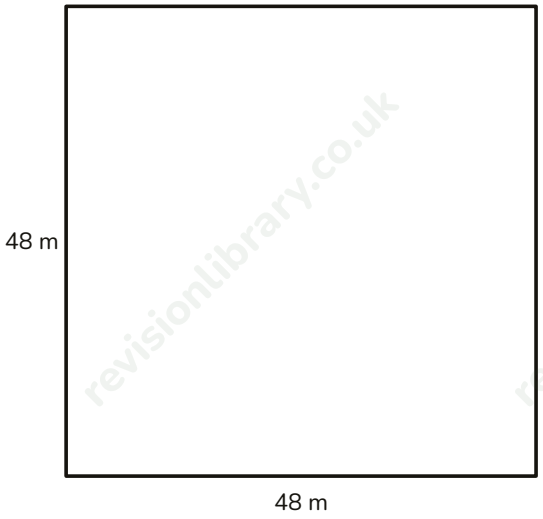
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29 A square has sides of length 48 m.

What is its perimeter?

Answer: ___ m

Diagram NOT accurately drawn



(1)

30 Convert 16 m to mm.

Answer: ___ mm

(1)

31 A scale in ml has big marks every 200 ml, with 10 equal small divisions between each big mark. The first big mark is 0. The pointer is 5 small divisions after the second big mark.

What is the reading?

Answer: ___ ml

(2)

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32 Convert 190 mm to cm.

Answer: ___ cm

(1)

---

33 Which is bigger, 4.2 km or 3,942 m?

Answer: ___

(1)

---

34 Convert 20 m to cm.

Answer: ___ cm

(1)

---

35 A scale in ml has big marks every 200 ml, with 4 equal small divisions between each big mark. The first big mark is 200. The pointer is 1 small division after the second big mark.

What is the reading?

Answer: ___ ml

(2)

---

36 Convert 34,000 g to kg.

Answer: ___ kg

(1)

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37 A scale in ml has big marks every 50 ml, with 10 equal small divisions between each big mark. The first big mark is 150. The pointer is 1 small division after the second big mark.

What is the reading?

Answer: ___ ml

(1)

---

38 Jack buys a bag of potatoes weighing 2.6 kg and a bag of carrots weighing 452 g.

What is the total mass in kg?

Answer: ___ kg

(2)

---

39 Convert 22 kg to g.

Answer: ___ g

(1)

---

40 A scale in ml has big marks every 20 ml, with 10 equal small divisions between each big mark. The first big mark is 40. The pointer is 7 small divisions after the second big mark.

What is the reading?

Answer: ___ ml

(1)

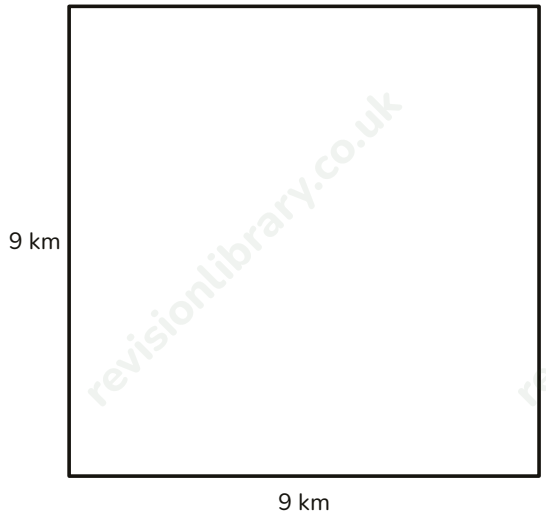
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41 A square has sides of length 9 km.

What is its perimeter?

Answer: ___ km

Diagram NOT accurately drawn



(1)

42 Which is bigger, 2.2 kg or 2,088 g?

Answer: ___

(2)

43 A garden bed is a rectangle 2 m long and 75 cm wide. What is the perimeter of the bed? Give your answer in metres and centimetres.

(2)

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44 A rectangle is 9 km long and 3 km wide.

What is its perimeter?

Answer: ___ km

(1)

---

45 Which is bigger, 2.7 m or 568 cm?

Answer: ___

(2)

---

46 Convert 29 m to mm.

Answer: ___ mm

(1)

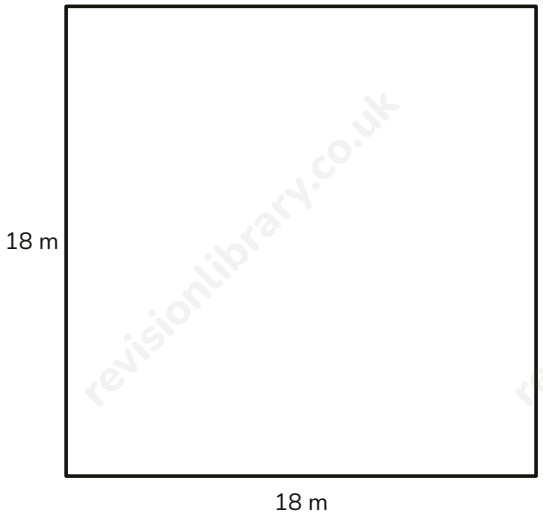
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47 A square has sides of length 18 m.

What is its perimeter?

Answer: ___ m

Diagram NOT accurately drawn



(1)

---

48 Convert 16,000 ml to litres.

Answer: ___ litres

(1)

---

49 Which is bigger, 2 kg or 1,796 g?

Answer: ___

(2)

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50 A scale in ml has big marks every 100 ml, with 4 equal small divisions between each big mark. The first big mark is 100. The pointer is 3 small divisions after the second big mark.

What is the reading?

Answer: ___ ml

(1)

---

51 Which is bigger, 7.6 kg or 7,295 g?

Answer: ___

(2)

---

52 Convert 36,000 mm to m.

Answer: ___ m

(1)

---

53 Layla buys a bag of potatoes weighing 2.3 kg and a bag of carrots weighing 811 g.

What is the total mass in kg?

Answer: ___ kg

(2)

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54 Convert 1,800 cm to m.

Answer: ___ m

(1)

---

55 A scale in ml has big marks every 20 ml, with 5 equal small divisions between each big mark. The first big mark is 40. The pointer is 3 small divisions after the second big mark.

What is the reading?

Answer: ___ ml

(2)

---

56 Convert 8 litres to ml.

Answer: ___ ml

(1)

---

57 Ravi buys a bag of potatoes weighing 1.3 kg and a bag of carrots weighing 257 g.

What is the total mass in kg?

Answer: ___ kg

(2)

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58 A rectangle is 33 cm long and 4 cm wide.

What is its perimeter?

Answer: ___ cm

(2)

---

59 A rectangle is 8 m long and 6 m wide.

What is its perimeter?

Answer: ___ m

(2)

---

60 A parcel weighs 1 kg 200 g. Ben adds stamps that weigh 85 g. What is the new mass in kilograms and grams?

(2)

---

61 Which is bigger, 1.9 kg or 1,806 g?

Answer: ___

(1)

---

62 Convert 10 cm to mm.

Answer: ___ mm

(1)

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63 A ribbon is 4 m long. Lily cuts it into pieces that are each 40 cm long.

How many pieces does Lily cut?

Answer: ___

(2)

---

64 A scale in ml has big marks every 10 ml, with 10 equal small divisions between each big mark. The first big mark is 30. The pointer is 5 small divisions after the second big mark.

What is the reading?

Answer: ___ ml

(1)

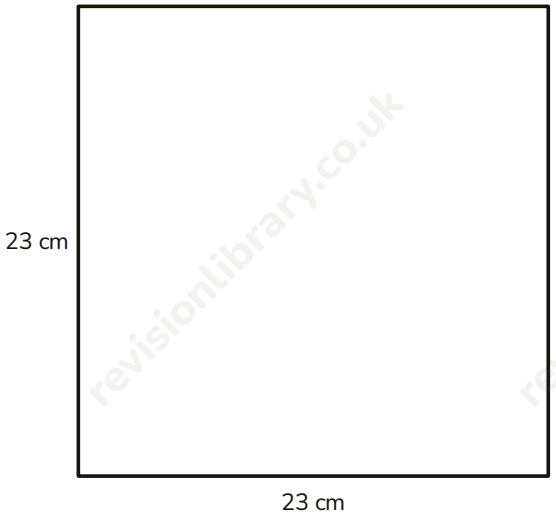
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65 A square has sides of length 23 cm.

What is its perimeter?

Answer: ___ cm

Diagram NOT accurately drawn



(1)

66 Which is bigger, 2 kg or 2,145 g?

Answer: ___

(2)

67 Which is bigger, 2.1 kg or 1,845 g?

Answer: ___

(1)

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Mark scheme · 7.2 Measurement: Length, Mass and Capacity: 2-hour Pack

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

Question 1

9 m cao	B1

Answer: **9 m**

Question 2

25,000 mm cao	B1

Answer: **25,000 mm**

Question 3

1 litres = 1,000 ml seen	M1
5 cao	A1

Answer: **5**

Question 4

96 m cao	B1

Answer: **96 m**

Question 5

207 g = 0.207 kg seen	M1
3.107 kg cao	A1

Answer: **3.107 kg**

Question 6

70 m cao	B1

Answer: **70 m**

Question 7

3 m cao	B1

Answer: **3 m**

Question 8

adds all four sides or doubles l + w	M1
62 m cao	A1

Answer: **62 m**

Question 9

188 km cao	B1

Answer: **188 km**

Question 10

442 g = 0.442 kg seen	M1
3.142 kg cao	A1

Answer: **3.142 kg**

Question 11

size of a small division found	M1
132 ml cao	A1

Answer: **132 ml**

Question 12

158 ml cao	B1

Answer: **158 ml**

Question 13

size of a small division found	M1
180 ml cao	A1

Answer: **180 ml**

Question 14

76 cm cao	B1

Answer: **76 cm**

Question 15

convert and subtract seen, e.g. 215 cm - 80 cm = 135 cm	M1
1 m 35 cm cao	A1

Answer: **1 m 35 cm**

Question 16

35 m cao	B1

Answer: **35 m**

Question 17

5 m = 500 cm seen	M1
20 cao	A1

Answer: **20**

Question 18

16,000 g cao	B1

Answer: **16,000 g**

Question 19

370 mm cao	B1

Answer: **370 mm**

Question 20

size of a small division found	M1
195 ml cao	A1

Answer: **195 ml**

Question 21

converts to the same unit	M1
4,943 ml cao	A1

Answer: **4,943 ml**

Question 22

967 cm cao	B1

Answer: **967 cm**

Question 23

148 m cao	B1

Answer: **148 m**

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Question 24

29 kg cao — **B1**

Answer: **29 kg**

Question 25

10 litres cao — **B1**

Answer: **10 litres**

Question 26

3 kg cao — **B1**

Answer: **3 kg**

Question 27

112 cm cao — **B1**

Answer: **112 cm**

Question 28

648 g = 0.648 kg seen — **M1**

4.948 kg cao — **A1**

Answer: **4.948 kg**

Question 29

192 m cao — **B1**

Answer: **192 m**

Question 30

16,000 mm cao — **B1**

Answer: **16,000 mm**

Question 31

size of a small division found — **M1**

300 ml cao — **A1**

Answer: **300 ml**

Question 32

19 cm cao — **B1**

Answer: **19 cm**

Question 33

4.2 km cao — **B1**

Answer: **4.2 km**

Question 34

2,000 cm cao — **B1**

Answer: **2,000 cm**

Question 35

size of a small division found — **M1**

450 ml cao — **A1**

Answer: **450 ml**

Question 36

34 kg cao — **B1**

Answer: **34 kg**

Question 37

205 ml cao — **B1**

Answer: **205 ml**

Question 38

452 g = 0.452 kg seen — **M1**

3.052 kg cao — **A1**

Answer: **3.052 kg**

Question 39

22,000 g cao — **B1**

Answer: **22,000 g**

Question 40

74 ml cao — **B1**

Answer: **74 ml**

Question 41

36 km cao — **B1**

Answer: **36 km**

Question 42

converts to the same unit — **M1**

2.2 kg cao — **A1**

Answer: **2.2 kg**

Question 43

calculate 2*(200 cm + 75 cm) or 2*(2 m + 0.75 m) shown — **M1**

5 m 50 cm cao — **A1**

Answer: **5 m 50 cm**

Question 44

24 km cao — **B1**

Answer: **24 km**

Question 45

converts to the same unit — **M1**

568 cm cao — **A1**

Answer: **568 cm**

Question 46

29,000 mm cao — **B1**

Answer: **29,000 mm**

Question 47

72 m cao — **B1**

Answer: **72 m**

Question 48

16 litres cao — **B1**

Answer: **16 litres**

Question 49

converts to the same unit — **M1**

2 kg cao — **A1**

Answer: **2 kg**

Question 50

275 ml cao — **B1**

Answer: **275 ml**

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Question 51

converts to the same unit — **M1**

7.6 kg cao — **A1**

Answer: **7.6 kg**

Question 52

36 m cao — **B1**

Answer: **36 m**

Question 53

811 g = 0.811 kg seen — **M1**

3.111 kg cao — **A1**

Answer: **3.111 kg**

Question 54

18 m cao — **B1**

Answer: **18 m**

Question 55

size of a small division found — **M1**

72 ml cao — **A1**

Answer: **72 ml**

Question 56

8,000 ml cao — **B1**

Answer: **8,000 ml**

Question 57

257 g = 0.257 kg seen — **M1**

1.557 kg cao — **A1**

Answer: **1.557 kg**

Question 58

adds all four sides or doubles l + w — **M1**

74 cm cao — **A1**

Answer: **74 cm**

Question 59

adds all four sides or doubles l + w — **M1**

28 m cao — **A1**

Answer: **28 m**

Question 60

convert to grams: 1200 + 85 = 1285 g or equivalent working — **M1**

1 kg 285 g cao — **A1**

Answer: **1 kg 285 g**

Question 61

1.9 kg cao — **B1**

Answer: **1.9 kg**

Question 62

100 mm cao — **B1**

Answer: **100 mm**

Question 63

4 m = 400 cm seen — **M1**

10 cao — **A1**

Answer: **10**

Question 64

45 ml cao — **B1**

Answer: **45 ml**

Question 65

92 cm cao — **B1**

Answer: **92 cm**

Question 66

converts to the same unit — **M1**

2,145 g cao — **A1**

Answer: **2,145 g**

Question 67

2.1 kg cao — **B1**

Answer: **2.1 kg**

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