2.5 Percentages: 1-hour Pack

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Lily scores 32 goals from 40 shots. What percentage of the shots were goals?

- ☐ A) 0.8%
- ☐ B) 80%
- ☐ C) 81%
- ☐ D) 79%
- ☐ E) 125%

---

2 Tomasz invests £500 in a savings account that pays 4% simple interest per year.

(a) Calculate the interest earned after 3 years. **(3)**

.....

(b) Work out the total amount in the account after 3 years. **(1)**

.....

---

3 Callum scores 13 out of 20 in a test. What is this as a percentage?

- ☐ A) 13%
- ☐ B) 35%
- ☐ C) 66%
- ☐ D) 65%
- ☐ E) 0.65%

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4 A shop has 200 cakes and sells 26 of them. What percentage were sold?

- [ ] A) 13%
- [ ] B) 87%
- [ ] C) 26%
- [ ] D) 0.13%
- [ ] E) 14%

---

5 Jack scores 52 out of 200 in a test. What is this as a percentage?

- [ ] A) 52%
- [ ] B) 26%
- [ ] C) 74%
- [ ] D) 2.6%
- [ ] E) 0.26%

---

6 A shop has 20 cakes and sells 19 of them. What percentage were sold?

- [ ] A) 9.5%
- [ ] B) 19%
- [ ] C) 95%
- [ ] D) 0.95%
- [ ] E) 96%

---

7 A shop has 25 cakes and sells 18 of them. What percentage were sold?

- [ ] A) 71%
- [ ] B) 0.72%
- [ ] C) 28%
- [ ] D) 18%
- [ ] E) 72%

---

8 A shop has 200 cakes and sells 184 of them. What percentage were sold?

- [ ] A) 92%
- [ ] B) 91%
- [ ] C) 184%
- [ ] D) 93%
- [ ] E) 0.92%

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9 Rhys scores 9 goals from 25 shots. What percentage of the shots were goals?

- ☐ A) 9%
- ☐ B) 37%
- ☐ C) 0.36%
- ☐ D) 3.6%
- ☐ E) 36%

---

10 Callum scores 43 out of 50 in a test. What is this as a percentage?

- ☐ A) 43%
- ☐ B) 86%
- ☐ C) 0.86%
- ☐ D) 85%
- ☐ E) 8.6%

---

11 Priya scores 11 goals from 25 shots. What percentage of the shots were goals?

- ☐ A) 11%
- ☐ B) 56%
- ☐ C) 44%
- ☐ D) 0.44%
- ☐ E) 43%

---

12 After a pay rise of 20%, Aisha's annual salary is £30,000. Calculate her annual salary before the pay rise.

(3)

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13 In January, 40% of the pupils at a school walked to school. In February, this rose to 44%.

(a) Calculate the increase in percentage points from January to February. **(1)**

.....

(b) Calculate the percentage increase in the proportion of pupils walking to school (as a percentage of the original 40%). **(3)**

.....

---

14 A shop has 25 cakes and sells 24 of them. What percentage were sold?

- ☐ A) 4%
- ☐ B) 96%
- ☐ C) 9.6%
- ☐ D) 24%
- ☐ E) 0.96%

---

15 A shop has 5 cakes and sells 1 of them. What percentage were sold?

- ☐ A) 2%
- ☐ B) 80%
- ☐ C) 0.2%
- ☐ D) 500%
- ☐ E) 20%

---

16 Tariq scores 23 goals from 25 shots. What percentage of the shots were goals?

- ☐ A) 9.2%
- ☐ B) 92%
- ☐ C) 0.92%
- ☐ D) 93%
- ☐ E) 23%

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17 A shop has 25 cakes and sells 8 of them. What percentage were sold?

- [ ] A) 32%
- [ ] B) 0.32%
- [ ] C) 3.2%
- [ ] D) 33%
- [ ] E) 312.5%

---

18 Callum scores 8 goals from 10 shots. What percentage of the shots were goals?

- [ ] A) 20%
- [ ] B) 8%
- [ ] C) 0.8%
- [ ] D) 125%
- [ ] E) 80%

---

19 Tariq scores 12 goals from 25 shots. What percentage of the shots were goals?

- [ ] A) 52%
- [ ] B) 0.48%
- [ ] C) 48%
- [ ] D) 12%
- [ ] E) 4.8%

---

20 A shop has 25 cakes and sells 19 of them. What percentage were sold?

- [ ] A) 24%
- [ ] B) 0.76%
- [ ] C) 19%
- [ ] D) 76%
- [ ] E) 7.6%

---

21 Isla scores 38 out of 100 in a test. What is this as a percentage?

- [ ] A) 38%
- [ ] B) 0.38%
- [ ] C) 62%
- [ ] D) 37%
- [ ] E) 3.8%

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22 Callum scores 13 goals from 40 shots. What percentage of the shots were goals?

- [ ] A) 33.5%
- [ ] B) 0.325%
- [ ] C) 3.25%
- [ ] D) 13%
- [ ] E) 32.5%

---

23 A shop has 4 cakes and sells 2 of them. What percentage were sold?

- [ ] A) 0.5%
- [ ] B) 200%
- [ ] C) 50%
- [ ] D) 51%
- [ ] E) 49%

---

24 A shop has 10 cakes and sells 3 of them. What percentage were sold?

- [ ] A) 70%
- [ ] B) 30%
- [ ] C) 31%
- [ ] D) 0.3%
- [ ] E) 3%

---

25 A shop has 25 cakes and sells 21 of them. What percentage were sold?

- [ ] A) 84%
- [ ] B) 16%
- [ ] C) 21%
- [ ] D) 0.84%
- [ ] E) 83%

---

26 A shop has 40 cakes and sells 8 of them. What percentage were sold?

- [ ] A) 0.2%
- [ ] B) 21%
- [ ] C) 2%
- [ ] D) 500%
- [ ] E) 20%

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27 Yusuf scores 360 out of 500 in a test. What is this as a percentage?

- [ ] A) 0.72%
- [ ] B) 72%
- [ ] C) 7.2%
- [ ] D) 71%
- [ ] E) 360%

---

28 Ravi scores 90 goals from 100 shots. What percentage of the shots were goals?

- [ ] A) 91%
- [ ] B) 0.9%
- [ ] C) 9%
- [ ] D) 90%
- [ ] E) 10%

---

29 A shop has 25 cakes and sells 4 of them. What percentage were sold?

- [ ] A) 0.16%
- [ ] B) 1.6%
- [ ] C) 16%
- [ ] D) 17%
- [ ] E) 625%

---

30 A shop has 50 cakes and sells 42 of them. What percentage were sold?

- [ ] A) 42%
- [ ] B) 83%
- [ ] C) 84%
- [ ] D) 85%
- [ ] E) 0.84%

---

31 Leo scores 84 goals from 100 shots. What percentage of the shots were goals?

- [ ] A) 85%
- [ ] B) 84%
- [ ] C) 0.84%
- [ ] D) 16%
- [ ] E) 83%

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32 Chloe scores 3 out of 4 in a test. What is this as a percentage?

- [ ] A) 25%
- [ ] B) 0.75%
- [ ] C) 76%
- [ ] D) 3%
- [ ] E) 75%

---

33 A shop has 25 cakes and sells 3 of them. What percentage were sold?

- [ ] A) 12%
- [ ] B) 11%
- [ ] C) 0.12%
- [ ] D) 1.2%
- [ ] E) 3%

---

34 Rhys scores 15 out of 40 in a test. What is this as a percentage?

- [ ] A) 37.5%
- [ ] B) 3.75%
- [ ] C) 0.375%
- [ ] D) 15%
- [ ] E) 38.5%

---

35 Kofi scores 87 out of 200 in a test. What is this as a percentage?

- [ ] A) 87%
- [ ] B) 56.5%
- [ ] C) 0.435%
- [ ] D) 43.5%
- [ ] E) 44.5%

---

36 A shop has 25 cakes and sells 15 of them. What percentage were sold?

- [ ] A) 0.6%
- [ ] B) 61%
- [ ] C) 6%
- [ ] D) 15%
- [ ] E) 60%

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37 A shop has 80 cakes and sells 22 of them. What percentage were sold?

- [ ] A) 22%
- [ ] B) 2.75%
- [ ] C) 27.5%
- [ ] D) 26.5%
- [ ] E) 0.275%

---

38 A shop has 200 cakes and sells 181 of them. What percentage were sold?

- [ ] A) 89.5%
- [ ] B) 90.5%
- [ ] C) 91.5%
- [ ] D) 0.905%
- [ ] E) 181%

---

39 Amara scores 5 goals from 20 shots. What percentage of the shots were goals?

- [ ] A) 25%
- [ ] B) 75%
- [ ] C) 400%
- [ ] D) 0.25%
- [ ] E) 24%

---

40 Ethan scores 52 out of 100 in a test. What is this as a percentage?

- [ ] A) 0.52%
- [ ] B) 53%
- [ ] C) 5.2%
- [ ] D) 48%
- [ ] E) 52%

---

41 Sienna scores 20 out of 50 in a test. What is this as a percentage?

- [ ] A) 39%
- [ ] B) 250%
- [ ] C) 40%
- [ ] D) 0.4%
- [ ] E) 60%

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42 A shop has 50 cakes and sells 25 of them. What percentage were sold?

- [ ] A) 200%
- [ ] B) 50%
- [ ] C) 49%
- [ ] D) 0.5%
- [ ] E) 25%

---

43 Leo scores 27 out of 50 in a test. What is this as a percentage?

- [ ] A) 0.54%
- [ ] B) 54%
- [ ] C) 5.4%
- [ ] D) 53%
- [ ] E) 27%

---

44 Lily scores 11 out of 20 in a test. What is this as a percentage?

- [ ] A) 11%
- [ ] B) 54%
- [ ] C) 55%
- [ ] D) 0.55%
- [ ] E) 56%

---

45 Fatima scores 160 goals from 500 shots. What percentage of the shots were goals?

- [ ] A) 32%
- [ ] B) 0.32%
- [ ] C) 312.5%
- [ ] D) 31%
- [ ] E) 3.2%

---

46 Mei scores 6 goals from 20 shots. What percentage of the shots were goals?

- [ ] A) 31%
- [ ] B) 0.3%
- [ ] C) 6%
- [ ] D) 29%
- [ ] E) 30%

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47 A shop has 40 cakes and sells 16 of them. What percentage were sold?

- [ ] A) 0.4%
- [ ] B) 39%
- [ ] C) 40%
- [ ] D) 60%
- [ ] E) 250%

---

48 Oliver scores 1 goals from 50 shots. What percentage of the shots were goals?

- [ ] A) 5,000%
- [ ] B) 98%
- [ ] C) 3%
- [ ] D) 2%
- [ ] E) 0.02%

---

49 Zainab scores 56 goals from 80 shots. What percentage of the shots were goals?

- [ ] A) 0.7%
- [ ] B) 70%
- [ ] C) 56%
- [ ] D) 69%
- [ ] E) 30%

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50 A shop has 25 cakes and sells 6 of them. What percentage were sold?

- ☐ A) 6%
- ☐ B) 0.24%
- ☐ C) 76%
- ☐ D) 24%
- ☐ E) 23%

---

51 Farida buys and sells vintage bicycles.

(a) She buys a bicycle for £150 and sells it for £180. Calculate her percentage profit. **(3)**

.....

(b) She buys another bicycle for £220 and sells it for £187. Calculate her percentage loss. **(3)**

.....

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Mark scheme · 2.5 Percentages: 1-hour Pack

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

Question 1

correct option B (80%) cao **B1**

Answer: B) 80%

Question 2

(a) 4% of 500 found (= 20) **M1**

(a) dep: 20 x 3 **M1**

(a) £60 cao **A1**

(a) Answer: £60

(b) £560 (ft from part a: 500 + their interest) **B1**

(b) Answer: £560

Question 3

correct option D (65%) cao **B1**

Answer: D) 65%

Question 4

correct option A (13%) cao **B1**

Answer: A) 13%

Question 5

correct option B (26%) cao **B1**

Answer: B) 26%

Question 6

correct option C (95%) cao **B1**

Answer: C) 95%

Question 7

correct option E (72%) cao **B1**

Answer: E) 72%

Question 8

correct option A (92%) cao **B1**

Answer: A) 92%

Question 9

correct option E (36%) cao **B1**

Answer: E) 36%

Question 10

correct option B (86%) cao **B1**

Answer: B) 86%

Question 11

correct option C (44%) cao **B1**

Answer: C) 44%

Question 12

recognises 120% represents £30,000 (or finds 1% = 250) **M1**

dep: finds 100% from their 1% or 120% **M1**

£25,000 cao **A1**

Answer: £25,000

Question 13

(a) 4 percentage points cao **B1**

(a) Answer: 4 percentage points

(b) increase of 4 identified (ft from part a) **M1**

(b) dep: 4/40 oe seen **M1**

(b) 10% cao **A1**

(b) Answer: 10%

Question 14

correct option B (96%) cao **B1**

Answer: B) 96%

Question 15

correct option E (20%) cao **B1**

Answer: E) 20%

Question 16

correct option B (92%) cao **B1**

Answer: B) 92%

Question 17

correct option A (32%) cao **B1**

Answer: A) 32%

Question 18

correct option E (80%) cao **B1**

Answer: E) 80%

Question 19

correct option C (48%) cao **B1**

Answer: C) 48%

Question 20

correct option D (76%) cao **B1**

Answer: D) 76%

Question 21

correct option A (38%) cao **B1**

Answer: A) 38%

Question 22

correct option E (32.5%) cao **B1**

Answer: E) 32.5%

Question 23

correct option C (50%) cao **B1**

Answer: C) 50%

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Question 24

correct option B (30%) cao **B1**

Answer: B) 30%

Question 25

correct option A (84%) cao **B1**

Answer: A) 84%

Question 26

correct option E (20%) cao **B1**

Answer: E) 20%

Question 27

correct option B (72%) cao **B1**

Answer: B) 72%

Question 28

correct option D (90%) cao **B1**

Answer: D) 90%

Question 29

correct option C (16%) cao **B1**

Answer: C) 16%

Question 30

correct option C (84%) cao **B1**

Answer: C) 84%

Question 31

correct option B (84%) cao **B1**

Answer: B) 84%

Question 32

correct option E (75%) cao **B1**

Answer: E) 75%

Question 33

correct option A (12%) cao **B1**

Answer: A) 12%

Question 34

correct option A (37.5%) cao **B1**

Answer: A) 37.5%

Question 35

correct option D (43.5%) cao **B1**

Answer: D) 43.5%

Question 36

correct option E (60%) cao **B1**

Answer: E) 60%

Question 37

correct option C (27.5%) cao **B1**

Answer: C) 27.5%

Question 38

correct option B (90.5%) cao **B1**

Answer: B) 90.5%

Question 39

correct option A (25%) cao **B1**

Answer: A) 25%

Question 40

correct option E (52%) cao **B1**

Answer: E) 52%

Question 41

correct option C (40%) cao **B1**

Answer: C) 40%

Question 42

correct option B (50%) cao **B1**

Answer: B) 50%

Question 43

correct option B (54%) cao **B1**

Answer: B) 54%

Question 44

correct option C (55%) cao **B1**

Answer: C) 55%

Question 45

correct option A (32%) cao **B1**

Answer: A) 32%

Question 46

correct option E (30%) cao **B1**

Answer: E) 30%

Question 47

correct option C (40%) cao **B1**

Answer: C) 40%

Question 48

correct option D (2%) cao **B1**

Answer: D) 2%

Question 49

correct option B (70%) cao **B1**

Answer: B) 70%

Question 50

correct option D (24%) cao **B1**

Answer: D) 24%

Question 51

(a) profit found (= 180 - 150 = 30) **M1**

(a) dep: their 30/150 oe seen **M1**

(a) 20% cao **A1**

(a) Answer: 20%

(b) loss found (= 220 - 187 = 33) **M1**

(b) dep: their 33/220 oe seen **M1**

(b) 15% cao **A1**

(b) Answer: 15%

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