2.23 Fractions, Decimals and Percentages Mixed Drill: 1-hour Pack

GL ASSESSMENT EP.M24 · Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Write 2/5 as a decimal.

- ☐ A) 4
- ☐ B) 0.25
- ☐ C) 2.5
- ☐ D) 0.04
- ☐ E) 0.4

---

2 Write 1/10 as a decimal.

- ☐ A) 1
- ☐ B) 0.1
- ☐ C) 10
- ☐ D) 0.110
- ☐ E) 1.10

---

3 Calculate 35% of 80.

(1)

---

4 Write 22/25 as a decimal.

- ☐ A) 22.25
- ☐ B) 8.8
- ☐ C) 25.0
- ☐ D) 0.88
- ☐ E) 0.2225

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5 Write 0.32 as a percentage.

- [ ] A) 0.032%
- [ ] B) 3.2%
- [ ] C) 320%
- [ ] D) 0.32%
- [ ] E) 32%

---

6 Write 0.875 as a percentage.

- [ ] A) 0.0875%
- [ ] B) 0.875%
- [ ] C) 8.75%
- [ ] D) 87.5%
- [ ] E) 875%

---

7 Write 1/8 as a percentage.

- [ ] A) 18%
- [ ] B) 0.125%
- [ ] C) 12.5%
- [ ] D) 10%
- [ ] E) 1.25%

---

8 Write 1/20 as a decimal.

- [ ] A) 0.120
- [ ] B) 0.05
- [ ] C) 20
- [ ] D) 1.20
- [ ] E) 0.005

---

9 Write 7/50 as a percentage.

- [ ] A) 0.14%
- [ ] B) 14%
- [ ] C) 750%
- [ ] D) 70%
- [ ] E) 1.4%

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10 Write 9/50 as a decimal.

- [ ] A) 50.0
- [ ] B) 9.50
- [ ] C) 1.8
- [ ] D) 0.950
- [ ] E) 0.18

---

11 Write 0.3 as a percentage.

- [ ] A) 0.3%
- [ ] B) 300%
- [ ] C) 3%
- [ ] D) 30%
- [ ] E) 0.03%

---

12 Write 6% as a fraction in its simplest form.

- [ ] A) 3/50
- [ ] B) 6/100
- [ ] C) 6/1000
- [ ] D) 6/10
- [ ] E) 1/6

---

13 Write 3/25 as a percentage.

- [ ] A) 25%
- [ ] B) 325%
- [ ] C) 12%
- [ ] D) 1.2%
- [ ] E) 0.12%

---

14 Write 13/40 as a percentage.

- [ ] A) 0.325%
- [ ] B) 40%
- [ ] C) 1340%
- [ ] D) 3.25%
- [ ] E) 32.5%

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15 Write 1/2 as a percentage.

- ☐ A) 50%
- ☐ B) 10%
- ☐ C) 12%
- ☐ D) 200%
- ☐ E) 0.5%

---

16 Layla has a packet of biscuits containing 40 biscuits. 3/5 of the biscuits are chocolate. How many biscuits are chocolate?

(2)

---

17 Priya has £45. She spends 20% of it on a book. How much does she spend?

(2)

---

18 Write 45% as a fraction in its simplest form.

(1)

---

19 Write 5/8 as a decimal.

(1)

---

20 Tom scored 34 out of 40 in a spelling test. What percentage did he score?

(2)

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21 Calculate 65% of 140.

(1)

---

22 A recipe needs 250g of flour. Amara only wants to make 3/5 of the recipe. How much flour does she need?

(2)

---

23 Write 3/10 as a percentage.

(1)

---

24 In Mrs Bennett's class of 30 pupils, 40% are boys. How many boys are there?

(2)

---

25 Increase £80 by 15%.

(2)

---

26 Ravi buys a coat originally priced at £64. In a sale it is reduced by 25%. What is the sale price?

(2)

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27 Write 5/9 as a decimal, giving your answer to 2 decimal places.

(1)

---

28 Write 7/8 as a decimal.

- ☐ A) 0.0875
- ☐ B) 8.0
- ☐ C) 7.8
- ☐ D) 0.875
- ☐ E) 0.78

---

29 Write 1/4 as a decimal.

- ☐ A) 0.25
- ☐ B) 1.4
- ☐ C) 2.5
- ☐ D) 0.14
- ☐ E) 0.025

---

30 Write 0.8 as a fraction in its simplest form.

- ☐ A) 8/100
- ☐ B) 8/10
- ☐ C) 4/5
- ☐ D) 9/8
- ☐ E) 1/8

---

31 Calculate 50% of 20.

(1)

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32 Write 0.88 as a fraction in its simplest form.

- [ ] A) 22/47
- [ ] B) 22/25
- [ ] C) 89/88
- [ ] D) 88/1000
- [ ] E) 88/100

---

33 Write 1/5 as a decimal.

- [ ] A) 0.15
- [ ] B) 2
- [ ] C) 0.02
- [ ] D) 1.5
- [ ] E) 0.2

---

34 Write 0.96 as a percentage.

- [ ] A) 0.96%
- [ ] B) 96%
- [ ] C) 960%
- [ ] D) 0.096%
- [ ] E) 9.6%

---

35 Write 0.72 as a fraction in its simplest form.

- [ ] A) 18/25
- [ ] B) 72/100
- [ ] C) 1/72
- [ ] D) 18/43
- [ ] E) 72/1000

---

36 Write 5% as a fraction in its simplest form.

- [ ] A) 5/10
- [ ] B) 1/5
- [ ] C) 1/20
- [ ] D) 5/100
- [ ] E) 20/1

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37 Write 4/5 as a percentage.

- [ ] A) 125%
- [ ] B) 40%
- [ ] C) 0.8%
- [ ] D) 45%
- [ ] E) 80%

---

38 Write 0.55 as a percentage.

- [ ] A) 5.5%
- [ ] B) 55%
- [ ] C) 0.055%
- [ ] D) 0.55%
- [ ] E) 0.0055%

---

39 Write 0.4 as a percentage.

- [ ] A) 0.4%
- [ ] B) 0.04%
- [ ] C) 4%
- [ ] D) 40%
- [ ] E) 0.004%

---

40 Write 0.125 as a percentage.

- [ ] A) 125%
- [ ] B) 0.125%
- [ ] C) 12.5%
- [ ] D) 1.25%
- [ ] E) 0.0125%

---

41 Write 0.9 as a percentage.

- [ ] A) 9%
- [ ] B) 0.9%
- [ ] C) 0.009%
- [ ] D) 900%
- [ ] E) 90%

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42 Write 3/10 as a percentage.

- [ ] A) 310%
- [ ] B) 0.3%
- [ ] C) 10%
- [ ] D) 30%
- [ ] E) 3%

---

43 Write 65% as a fraction in its simplest form.

- [ ] A) 65/1000
- [ ] B) 1/65
- [ ] C) 13/20
- [ ] D) 65/10
- [ ] E) 65/100

---

44 Write 1/10 as a percentage.

- [ ] A) 10%
- [ ] B) 1%
- [ ] C) 1,000%
- [ ] D) 0.1%
- [ ] E) 110%

---

45 Write 0.88 as a percentage.

- [ ] A) 88%
- [ ] B) 880%
- [ ] C) 8.8%
- [ ] D) 0.0088%
- [ ] E) 0.88%

---

46 Write 0.4 as a fraction in its simplest form.

- [ ] A) 1/4
- [ ] B) 4/100
- [ ] C) 2/5
- [ ] D) 2/7
- [ ] E) 4/10

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47 Write 0.68 as a fraction in its simplest form.

- [ ] A) 1/68
- [ ] B) 68/100
- [ ] C) 68/1000
- [ ] D) 17/25
- [ ] E) 69/68

---

48 Write 0.44 as a fraction in its simplest form.

- [ ] A) 44/100
- [ ] B) 45/44
- [ ] C) 44/1000
- [ ] D) 1/44
- [ ] E) 11/25

---

49 Write 0.55 as a fraction in its simplest form.

- [ ] A) 11/31
- [ ] B) 55/100
- [ ] C) 11/20
- [ ] D) 1/55
- [ ] E) 55/1000

---

50 Write 16% as a fraction in its simplest form.

- [ ] A) 4/25
- [ ] B) 1/16
- [ ] C) 16/10
- [ ] D) 25/4
- [ ] E) 16/100

---

51 Write 1/4 as a percentage.

- [ ] A) 14%
- [ ] B) 2.5%
- [ ] C) 0.25%
- [ ] D) 25%
- [ ] E) 400%

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52 Write 0.6 as a percentage.

- [ ] A) 0.6%
- [ ] B) 0.006%
- [ ] C) 600%
- [ ] D) 6%
- [ ] E) 60%

---

53 Write 40% as a fraction in its simplest form.

- [ ] A) 40/100
- [ ] B) 1/40
- [ ] C) 40/10
- [ ] D) 2/5
- [ ] E) 40/1000

---

54 Write 32% as a fraction in its simplest form.

- [ ] A) 32/100
- [ ] B) 8/25
- [ ] C) 32/1000
- [ ] D) 1/32
- [ ] E) 32/10

---

55 Write 1/2 as a decimal.

- [ ] A) 0.05
- [ ] B) 2
- [ ] C) 0.5
- [ ] D) 1.2
- [ ] E) 0.12

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56 Write 5/8 as a percentage.

- ☐ A) 160%
- ☐ B) 50%
- ☐ C) 58%
- ☐ D) 0.625%
- ☐ E) 62.5%

---

57 Write 75% as a fraction in its simplest form.

(1)

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Mark scheme · 2.23 Fractions, Decimals and Percentages Mixed Drill: 1-hour Pack

Question 1

correct option E (0.4) cao — **B1**

Answer: E) 0.4

Question 2

correct option B (0.1) cao — **B1**

Answer: B) 0.1

Question 3

28 cao — **B1**

Answer: 28

Question 4

correct option D (0.88) cao — **B1**

Answer: D) 0.88

Question 5

correct option E (32%) cao — **B1**

Answer: E) 32%

Question 6

correct option D (87.5%) cao — **B1**

Answer: D) 87.5%

Question 7

correct option C (12.5%) cao — **B1**

Answer: C) 12.5%

Question 8

correct option B (0.05) cao — **B1**

Answer: B) 0.05

Question 9

correct option B (14%) cao — **B1**

Answer: B) 14%

Question 10

correct option E (0.18) cao — **B1**

Answer: E) 0.18

Question 11

correct option D (30%) cao — **B1**

Answer: D) 30%

Question 12

correct option A (3/50) cao — **B1**

Answer: A) 3/50

Question 13

correct option C (12%) cao — **B1**

Answer: C) 12%

Question 14

correct option E (32.5%) cao — **B1**

Answer: E) 32.5%

Question 15

correct option A (50%) cao — **B1**

Answer: A) 50%

Question 16

40 / 5 = 8 — **M1**

24 cao — **A1**

Answer: 24

Question 17

10% of 45 = 4.5 — **M1**

£9 cao — **A1**

Answer: £9

Question 18

9/20 cao — **B1**

Answer: 9/20

Question 19

0.625 cao — **B1**

Answer: 0.625

Question 20

34/40 converted to a fraction out of 100, or equivalent method — **M1**

85% cao — **A1**

Answer: 85%

Question 21

91 cao — **B1**

Answer: 91

Question 22

250 / 5 = 50 — **M1**

150g cao — **A1**

Answer: 150g

Question 23

30% cao — **B1**

Answer: 30%

Question 24

10% of 30 = 3 — **M1**

12 cao — **A1**

Answer: 12

Question 25

15% of 80 = 12 — **M1**

£92 cao — **A1**

Answer: £92

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Question 26

25% of 64 = 16 **M1**

£48 cao **A1**

Answer: £48

Question 27

0.56 cao **B1**

Answer: 0.56

Question 28

correct option D (0.875) cao **B1**

Answer: D) 0.875

Question 29

correct option A (0.25) cao **B1**

Answer: A) 0.25

Question 30

correct option C (4/5) cao **B1**

Answer: C) 4/5

Question 31

10 cao **B1**

Answer: 10

Question 32

correct option B (22/25) cao **B1**

Answer: B) 22/25

Question 33

correct option E (0.2) cao **B1**

Answer: E) 0.2

Question 34

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

Answer: B) 96%

Question 35

correct option A (18/25) cao **B1**

Answer: A) 18/25

Question 36

correct option C (1/20) cao **B1**

Answer: C) 1/20

Question 37

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

Answer: E) 80%

Question 38

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

Answer: B) 55%

Question 39

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

Answer: D) 40%

Question 40

correct option C (12.5%) cao **B1**

Answer: C) 12.5%

Question 41

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

Answer: E) 90%

Question 42

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

Answer: D) 30%

Question 43

correct option C (13/20) cao **B1**

Answer: C) 13/20

Question 44

correct option A (10%) cao **B1**

Answer: A) 10%

Question 45

correct option A (88%) cao **B1**

Answer: A) 88%

Question 46

correct option C (2/5) cao **B1**

Answer: C) 2/5

Question 47

correct option D (17/25) cao **B1**

Answer: D) 17/25

Question 48

correct option E (11/25) cao **B1**

Answer: E) 11/25

Question 49

correct option C (11/20) cao **B1**

Answer: C) 11/20

Question 50

correct option A (4/25) cao **B1**

Answer: A) 4/25

Question 51

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

Answer: D) 25%

Question 52

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

Answer: E) 60%

Question 53

correct option D (2/5) cao **B1**

Answer: D) 2/5

Question 54

correct option B (8/25) cao **B1**

Answer: B) 8/25

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Question 55

correct option C (0.5) cao **B1**

Answer: C) 0.5

Question 56

correct option E (62.5%) cao **B1**

Answer: E) 62.5%

Question 57

3/4 cao **B1**

Answer: 3/4

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