2.23 Fractions, Decimals and Percentages Mixed Drill: Test Pack

Total Marks

GL ASSESSMENT EP.M24 · Calculators not allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Write 1/2 as a decimal.

(1)

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2 Write 0.25 as a percentage.

- ☐ A) 0.25%
- ☐ B) 25%
- ☐ C) 0.0025%
- ☐ D) 250%
- ☐ E) 2.5%

---

3 Write 2/5 as a percentage.

- ☐ A) 0.4%
- ☐ B) 4%
- ☐ C) 25%
- ☐ D) 250%
- ☐ E) 40%

---

4 Write 21/25 as a decimal.

- ☐ A) 0.084
- ☐ B) 25.0
- ☐ C) 21.25
- ☐ D) 0.84
- ☐ E) 0.2125

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5 Write 0.32 as a fraction in its simplest form.

- [ ] A) 8/25
- [ ] B) 32/1000
- [ ] C) 32/100
- [ ] D) 8/33
- [ ] E) 33/32

---

6 Write 0.05 as a fraction in its simplest form.

- [ ] A) 5/100
- [ ] B) 1/20
- [ ] C) 1/21
- [ ] D) 5/1000
- [ ] E) 20/5

---

7 Write 11/40 as a percentage.

- [ ] A) 2.75%
- [ ] B) 0.275%
- [ ] C) 40%
- [ ] D) 1140%
- [ ] E) 27.5%

---

8 Write 0.3 as a fraction in its simplest form.

- [ ] A) 3/100
- [ ] B) 3/10
- [ ] C) 1/3
- [ ] D) 3/13
- [ ] E) 4/3

---

9 Write 72% as a fraction in its simplest form.

- [ ] A) 18/25
- [ ] B) 72/1000
- [ ] C) 1/72
- [ ] D) 72/10
- [ ] E) 72/100

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10 Order these from smallest to largest: 0.65, 68%, 7/10

(2)

---

11 Convert 9/25 to a percentage.

(1)

---

12 Write 0.25 as a fraction in its simplest form.

(1)

---

13 Oakwood Primary School has 320 pupils. 3/4 of them walk to school. How many pupils walk to school?

(2)

---

14 Order these fractions from largest to smallest: 5/6, 7/9, 4/5

(2)

---

15 Find 2/5 of 3/4 of 120.

(2)

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16 A shop increases the price of a £120 jacket by 10%, then reduces the new price by 10%. What is the final price of the jacket?

(3)

---

17 Write 0.7 as a percentage.

- ☐ A) 0.07%
- ☐ B) 7%
- ☐ C) 0.007%
- ☐ D) 70%
- ☐ E) 0.7%

---

18 Write 9/20 as a percentage.

- ☐ A) 45%
- ☐ B) 90%
- ☐ C) 20%
- ☐ D) 0.45%
- ☐ E) 920%

---

19 Which of these is the largest: 0.4, 0.35, 0.5?

(1)

---

20 Write 0.625 as a percentage.

- ☐ A) 625%
- ☐ B) 62.5%
- ☐ C) 6.25%
- ☐ D) 0.625%
- ☐ E) 0.00625%

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21 Write 0.18 as a percentage.

- ☐ A) 0.18%
- ☐ B) 18%
- ☐ C) 180%
- ☐ D) 0.018%
- ☐ E) 1.8%

---

22 Find 1/4 of 40.

(1)

---

23 Write 3/4 as a percentage.

- ☐ A) 34%
- ☐ B) 75%
- ☐ C) 4%
- ☐ D) 7.5%
- ☐ E) 0.75%

---

24 Write 0.6 as a fraction in its simplest form.

- ☐ A) 3/5
- ☐ B) 1/6
- ☐ C) 6/10
- ☐ D) 6/100
- ☐ E) 3/8

---

25 Write 46% as a fraction in its simplest form.

- ☐ A) 50/23
- ☐ B) 46/100
- ☐ C) 1/46
- ☐ D) 23/50
- ☐ E) 46/1000

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26 Write 0.9 as a fraction in its simplest form.

- [ ] A) 9/19
- [ ] B) 10/9
- [ ] C) 9/100
- [ ] D) 1/9
- [ ] E) 9/10

---

27 Write 0.05 as a percentage.

- [ ] A) 0.5%
- [ ] B) 5%
- [ ] C) 0.05%
- [ ] D) 0.005%
- [ ] E) 50%

---

28 Write 0.75 as a percentage.

- [ ] A) 75%
- [ ] B) 0.0075%
- [ ] C) 750%
- [ ] D) 0.75%
- [ ] E) 7.5%

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Mark scheme · 2.23 Fractions, Decimals and Percentages Mixed Drill: Test Pack

Question 1

0.5 cao **B1**

Answer: 0.5

Question 2

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

Answer: B) 25%

Question 3

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

Answer: E) 40%

Question 4

correct option D (0.84) cao **B1**

Answer: D) 0.84

Question 5

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

Answer: A) 8/25

Question 6

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

Answer: B) 1/20

Question 7

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

Answer: E) 27.5%

Question 8

correct option B (3/10) cao **B1**

Answer: B) 3/10

Question 9

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

Answer: A) 18/25

Question 10

converts all three values to the same format (e.g. decimals 0.65, 0.68, 0.7) **M1**

0.65, 68%, 7/10 cao **A1**

Answer: 0.65, 68%, 7/10

Question 11

36% cao **B1**

Answer: 36%

Question 12

1/4 cao **B1**

Answer: 1/4

Question 13

320 / 4 = 80 **M1**

240 cao **A1**

Answer: 240

Question 14

converts all three fractions to decimals (5/6 = 0.833, 7/9 = 0.778, 4/5 = 0.8) **M1**

5/6, 4/5, 7/9 cao **A1**

Answer: 5/6, 4/5, 7/9

Question 15

3/4 of 120 = 90, or equivalent method combining the fractions first **M1**

36 cao **A1**

Answer: 36

Question 16

10% of 120 = 12, so the price after the increase is £132 **M1**

10% of 132 = 13.20 **M1**

£118.80 cao **A1**

Answer: £118.80

Question 17

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

Answer: D) 70%

Question 18

correct option A (45%) cao **B1**

Answer: A) 45%

Question 19

0.5 cao **B1**

Answer: 0.5

Question 20

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

Answer: B) 62.5%

Question 21

correct option B (18%) cao **B1**

Answer: B) 18%

Question 22

10 cao **B1**

Answer: 10

Question 23

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

Answer: B) 75%

Question 24

correct option A (3/5) cao **B1**

Answer: A) 3/5

Question 25

correct option D (23/50) cao **B1**

Answer: D) 23/50

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Question 26

correct option E (9/10) cao **B1**

Answer: E) 9/10

Question 27

correct option B (5%) cao **B1**

Answer: B) 5%

Question 28

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

Answer: A) 75%

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