Percentages as Fractions and Decimals

1a. Match the fractions to the equivalent decimal and percentage.

A. $\frac{18}{100}$ 0.08   18%

B. $\frac{81}{100}$ 0.18   81%

C. $\frac{8}{100}$ 0.81   8%
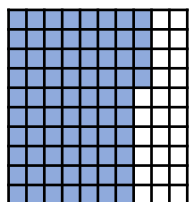
VF

1b. Match the fractions to the equivalent decimal and percentage.

A. $\frac{25}{100}$ 0.5   5%

B. $\frac{5}{100}$ 0.25   50%
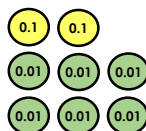
C. $\frac{50}{100}$ 0.05   25%
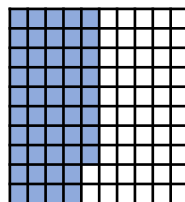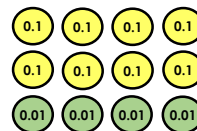
VF

2a. Circle the odd one out.

26%

0.1   0.1
0.01   0.01   0.01
0.01   0.01   0.01

VF

2b. Circle the odd one out.

48%

0.1   0.1   0.1   0.1
0.1   0.1   0.1   0.1
0.01   0.01   0.01   0.01

VF

3a. True or false?

32% is equivalent to 3.2

VF

3b. True or false?

32% is equivalent to $\frac{32}{100}$

VF

4a. Fill in the missing boxes to show the equivalent fraction, decimal or percentage.

A. [ ] = 0.83 = 83%

B. $\frac{64}{100}$ = 0.64 = [ ]

C. $\frac{72}{100}$ = [ ] = 72%

VF

4b. Fill in the missing boxes to show the equivalent fraction, decimal or percentage.

A. $\frac{24}{100}$ = 0.24 = [ ]

B. $\frac{32}{100}$ = [ ] = 32%

C. [ ] = 0.65 = 65%

VF

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Varied Fluency – Percentages as Fractions and Decimals – Year 5 Developing

Percentages as Fractions and Decimals

5a. Match the fractions to the equivalent decimal and percentage.

A. $\dfrac{36}{300}$ 0.65 42%

B. $\dfrac{65}{100}$ 0.42 65%

C. $\dfrac{84}{200}$ 0.12 12%

VF

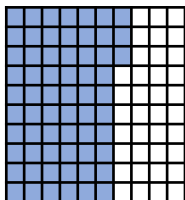**5b.** Match the fractions to the equivalent decimal and percentage.

A. $\dfrac{57}{100}$ 0.34 11%

B. $\dfrac{44}{400}$ 0.57 57%
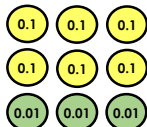
C. $\dfrac{68}{200}$ 0.11 34%
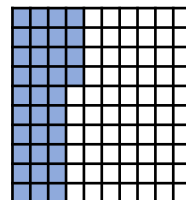
VF

6a. Circle the odd one out.
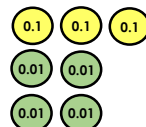
63%

$\dfrac{63}{300}$

0.1 0.1 0.1
0.1 0.1 0.1
0.01 0.01 0.01

0.63

VF

6b. Circle the odd one out.

34%

$\dfrac{34}{100}$

0.1 0.1 0.1
0.01 0.01
0.01 0.01

3.4

VF

7a. True or false?

75% is equivalent to 7.5

VF

7b. True or false?

42% is equivalent to $\dfrac{84}{200}$

VF

8a. Fill in the missing boxes to show the equivalent fraction, decimal or percentage.

A. $\dfrac{64}{200}$ = ☐ = 32%

B. ☐ = 0.24 = 24%

C. $\dfrac{36}{100}$ = 0.36 = ☐

VF

8b. Fill in the missing boxes to show the equivalent fraction, decimal or percentage.

A. ☐ = 0.52 = 52%

B. $\dfrac{82}{200}$ = ☐ = 41%

C. $\dfrac{44}{200}$ = 0.22 = ☐

VF

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Varied Fluency – Percentages as Fractions and Decimals – Year 5 Expected

Percentages as Fractions and Decimals

9a. Match the fractions to the equivalent decimal and percentage.

A. $\frac{26}{50}$ 0.6   80%

B. $\frac{15}{25}$ 0.52   60%

C. $\frac{8}{10}$ 0.8   52%

⭐GD   VF

Percentages as Fractions and Decimals

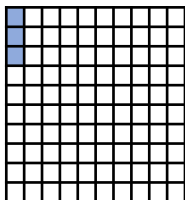**9b. Match the fractions to the equivalent decimal and percentage.**

A. $\frac{40}{50}$ 0.4   80%

B. $\frac{4}{10}$ 0.04   40%

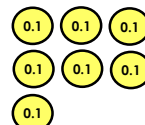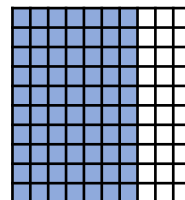C. $\frac{4}{100}$ 0.8   4%

⭐GD   VF

10a. Circle the odd one out.

30%

$\frac{6}{20}$

0.1 0.1 0.1

0.3

⭐GD   VF

10b. Circle the odd one out.

35%

$\frac{35}{50}$

0.1 0.1 0.1
0.1 0.1 0.1
0.1

0.7

⭐GD   VF

11a. True or false?

0.35 is equivalent to 35%

⭐GD   VF

11b. True or false?

72% is equivalent to $\frac{36}{50}$

⭐GD   VF

12a. Fill in the missing boxes to show the equivalent fraction, decimal or percentage.

A. $\frac{9}{25}$ = ☐ = ☐

B. $\frac{☐}{50}$ = 0.94 = ☐

C. $\frac{☐}{20}$ = ☐ = 75%

⭐GD   VF

12b. Fill in the missing boxes to show the equivalent fraction, decimal or percentage.

A. $\frac{☐}{200}$ = ☐ = 62%

B. $\frac{☐}{50}$ = 0.54 = ☐

C. $\frac{14}{20}$ = ☐ = ☐
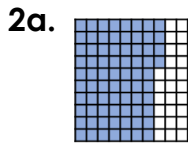
⭐GD   VF

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Varied Fluency – Percentages as Fractions and Decimals – Year 5 Greater Depth

Developing

1a. A = 0.18 = 18%, B = 0.81 = 81%, C = 0.08 = 8%

2a.

3a. False, the correct answer is 0.32

4a. A = $\frac{83}{100}$, B = 64%, C = 0.72

Developing

1b. A = 0.25 = 25%, B = 0.05 = 5%, C = 0.5 = 50%

2b.
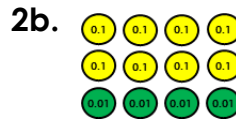
3b. True

4b. A = 24%, B = 0.32, C = $\frac{65}{100}$

Expected
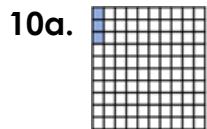
5a. A = 0.12 = 12%, B = 0.65 = 65%, C = 0.42 = 42%

6a. $\frac{63}{300}$

7a. False, the correct answer is 0.75

8a. A = 0.32, B = $\frac{24}{100}$ (or equivalent fraction), C = 36%

Expected

5b. A = 0.57 = 57%, B = 0.11 = 11%, C = 0.34 = 34%

6b. 3.4

7b. True

8b. A = $\frac{52}{100}$ (or equivalent fraction), B = 0.41, C = 22%

Greater Depth

9a. A = 0.52 = 52%, B = 0.6 = 60%, C = 0.8 = 80%

10a.

11a. True

12a. A = 0.36 = 36%, B = $\frac{47}{50}$ = 94%, C = $\frac{15}{20}$ = 0.75

Greater Depth

9b. A = 0.8 = 80%, B = 0.4 = 40%, C = 0.04 = 4%

10b. 35%

11b. True

12b. A = $\frac{124}{200}$ = 0.62, B = $\frac{27}{50}$ = 54%, C = 0.7 = 70%

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Varied Fluency – Percentages as Fractions and Decimals ANSWERS