Year 5 maths: Link fractions, hundredths, decimals and percent (Hard)

Maths · Fractions
Level: Hard

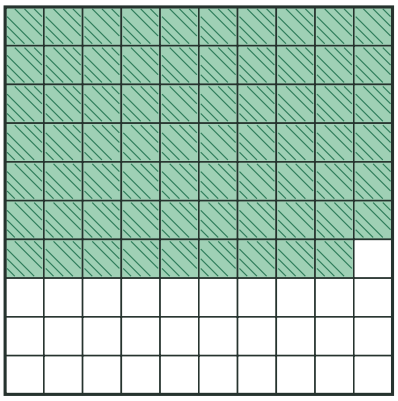
Student: _____ Date: _____

Instructions
- There are 10 questions. Read each one carefully.
- Write your answers on this paper. Use the space under a question to work it out.
- A grown-up can read a question aloud — that's fine.
- The answers are at the end. Check them together when you have finished.

Questions

1. What fraction of the shape is NOT shaded?

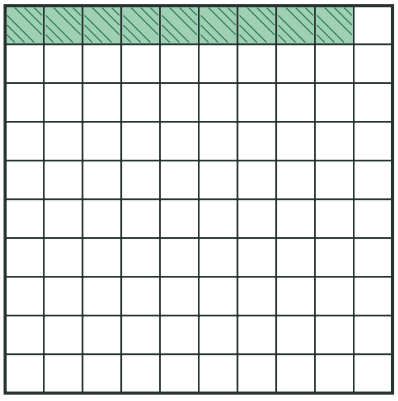
Circle one answer.



○ **A** 69/100 ○ **B** 31/99 ○ **C** 31/69
○ **D** 31/100

2. What fraction of the squares are left unshaded?

Circle one answer.



○ **A** 91/99 ○ **B** 91/9 ○ **C** 9/100
○ **D** 91/100

3. Which of these is NOT equal to 0.5?

Circle one answer.

○ **A** 50% ○ **B** 0.05 ○ **C** 5/10 ○ **D** 1/2

4. Write 34/10 as a decimal.

Circle one answer.

○ **A** 0.34 ○ **B** 3.4 ○ **C** 34.10 ○ **D** 3.04

5. Which is the smallest number: 4 3/8, 4 3/4, 4 3/5, 4 3/10?

Circle one answer.

○ **A** 4 3/4 ○ **B** 4 3/8 ○ **C** 4 3/10 ○ **D** 4 3/5

6. What is 7/10 of 90?

Answer: ☐

Working:

7. Which is the greatest?

Circle one answer.

○ **A** 65% ○ **B** 3/5 ○ **C** 0.7 ○ **D** 7/100

8. A 2 L bottle holds 2000 mL. Sam drinks 500 mL. What percent of the bottle did he drink?

Circle one answer.

○ **A** 25% ○ **B** 50% ○ **C** 75% ○ **D** 500%

9. A grid has 100 squares. 4 full rows of 10 and 7 more squares are shaded. What percent is shaded?

Answer: ☐ %

Working:

10. What is 20% of $35?

Circle one answer.

○ **A** $7 ○ **B** $20 ○ **C** $28 ○ **D** $15

Answer key

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1. D — 31/100
There are 100 equal squares. 69 are shaded, so 31 are not shaded: 31/100.

2. D — 91/100
There are 100 equal squares. 9 are shaded, so 91 are not shaded: 91/100.

3. B — 0.05
0.5 = 5/10 = 50/100 = 50% = 1/2. 0.05 is only 5 hundredths.

4. B — 3.4
34/10 is 34 tenths. 10 tenths make 1 whole, so 34 tenths is 3 wholes and 4 tenths: 3.4.

5. C — 4 3/10
All the numbers have 4 wholes, so compare the fractions. Fewer equal parts make bigger pieces, so the smallest fraction is 3/10.

6. 63
90 ÷ 10 = 9 for one part. 7 parts: 7 × 9 = 63.

7. C — 0.7
In per cent: 0.7 = 70%, 65%, 3/5 = 60%, and 7/100 = 7%. The greatest is 0.7.

8. A — 25%
500 out of 2000 is 1/4, which is 25%.

9. 47 %
4 rows of 10 is 40 squares. 40 + 7 = 47 out of 100, which is 47%.

10. A — $7
10% of $35 is $3.50, so 20% is $7.