Year 6 maths: Improper fractions and comparing fractions (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. Which is smallest: 7/12, 0.5, 45% or 3/5?

Circle one answer.

○ **A** 0.5 ○ **B** 45% ○ **C** 3/5 ○ **D** 7/12

2. Which is bigger, 5/6 or 7/8?

Circle one answer.

○ **A** 5/6 ○ **B** 7/8

3. Tick every number that is equal to 2 3/4.

Tick every answer that fits.

☐ **A** 23/4 ☐ **B** 2.34 ☐ **C** 11/4 ☐ **D** 2.75 ☐ **E** 275%

4. Which list is in order from smallest to largest?

Circle one answer.

○ **A** 0.4, 3/5, 65% ○ **B** 3/5, 0.4, 65% ○ **C** 65%, 3/5, 0.4

5. A 5 3/4 m rope is cut into pieces that are 1/4 m long. How many pieces are there?

Answer: ☐

Working:

6. Ana ran 5/8 km, Ben ran 3/4 km and Cho ran 2/3 km. Who ran furthest?

Circle one answer.

○ **A** Ben ○ **B** Ana ○ **C** Cho

7. Tick every number that is equal to 1 1/2.

Tick every answer that fits.

☐ **A** 3/2 ☐ **B** 1.5 ☐ **C** 150% ☐ **D** 1.2 ☐ **E** 11/2

8. Which of these is true?

Circle one answer.

○ **A** 4/9 > 4/7 ○ **B** 1/2 > 5/9 ○ **C** 3/4 > 5/8 ○ **D** 5/6 > 7/8

9. Which one is NOT equal to the others: 0.75, 3/4, 75% or 7.5%?

Circle one answer.

○ **A** 7.5% ○ **B** 3/4 ○ **C** 0.75 ○ **D** 75%

10. Which is the greatest?

Circle one answer.

○ **A** 2.8 ○ **B** 11/4 ○ **C** 2 7/10 ○ **D** 265%

Answer key

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1. B — 45%
45% = 0.45. 0.5 is bigger. 7/12 is a little more than 1/2. 3/5 = 0.6.

2. B — 7/8
In twenty-fourths: 5/6 = 20/24 and 7/8 = 21/24.

3. C — 11/4; D — 2.75; E — 275%
2 3/4 = 11/4 (2 wholes is 8 quarters, plus 3). 3/4 = 0.75, so 2 3/4 = 2.75 = 275%.

4. A — 0.4, 3/5, 65%
0.4 = 40%, 3/5 = 60%, then 65%.

5. 23
5 wholes is 20 quarters. Add 3 quarters: 23 pieces.

6. A — Ben
In twenty-fourths: Ana 15/24, Ben 18/24, Cho 16/24. Ben ran furthest.

7. A — 3/2; B — 1.5; C — 150%
1 1/2 = 3/2 = 1.5 = 150%.

8. C — 3/4 > 5/8
3/4 = 6/8, which is more than 5/8. The others are false.

9. A — 7.5%
0.75 = 3/4 = 75%. 7.5% is only 0.075.

10. A — 2.8
As decimals: 11/4 = 2.75, 2 7/10 = 2.7, 2.8 and 265% = 2.65. The greatest is 2.8.