

Topic: Decimals

1. Which is the correct expanded form of the decimal fraction 2.54 a) $(2 \times 1) + (5 \times 1) + (4 \times \frac{1}{100})$ b) $(2 \times 10) + (5 \times \frac{1}{10}) + (4 \times \frac{1}{100})$ c) $(2 \times 1) + (5 \times \frac{1}{10}) + (4 \times \frac{1}{100})$
1. Write the following mixed number as a decimal: $7\frac{3}{10}$ Answer: _____
2. What will 2.85 be as a mixed number a) $2\frac{85}{10}$ b) $2\frac{85}{100}$ c) $2\frac{17}{20}$ d) $2\frac{85}{1000}$
3. The value of the underlined digit in the number: 39.5<u>1</u> is a) 1 b) $\frac{1}{10}$ c) $\frac{1}{100}$ d) $\frac{10}{1}$
4. How much less than 8 is 1.36? Answer: _____
5. Solve $98 \times .34$ Answer: _____
6. Find the quotient when 36.9 is divided by 0.9. Answer: _____
7. Calculate $\frac{7}{10} + \frac{6}{100}$ and write your answer in decimal form Answer: _____
8. The mass of 40 packs of biscuits is 6.4 kg. Each pack has 5 biscuits. What is the mass, in grams, of one biscuit? Answer: _____
9. There are 40 balls in a bag. Ten are red, 25 are blue and the rest are green, What decimal will represent the balls that are green? Answer: _____

10. Stephan has 480 pencils. If 0.2 of the pencils are blue, 0.4 are red and the rest are equally divided into yellow and green, calculate how many are green.

Answer: _____

11. In a school of 320 pupils, 0.25 are girls and the rest are boys. If .4 of the boys have a bicycle, how many boys do not have a bicycle?

Answer: _____

Topic: Percentages

1. What is 50% as a fraction in its lowest form.

- a) $\frac{50}{100}$ b) $\frac{5}{10}$ c) $\frac{1}{4}$ d) $\frac{1}{2}$

2. Express 0.08 as a percentage

Answer: _____

3. Change 46% to a decimal

Answer: _____

4. What is 150% of \$14

Answer: _____

5. Sita had 50 mangoes. 35 were green and the rest were ripe. What percentage of the mangoes were ripe?

Answer: _____

6. An extra long bus has 2 sections:

The Front: There are 14 rows of seats with 4 seats in each row.

The Back: There are 12 rows of seats with 5 seats in each row.

Due to weight regulations, the bus is only allowed to be filled to 80% of its total seating capacity.

What is the minimum number of passengers the bus can legally carry?

What two operations do you need to use to solve this question?

Addition

Multiplication

Subtraction

Division

Answer: _____

7. Over a three-day weekend, a bakery sold a total of 1250 pastries. On Friday, the bakery sold 225 pastries. On Sunday, they sold 450 pastries. What percentage of the total pastries did the bakery sell on Sunday?

Answer: _____