

4

Interconversion between Decimals and Fractions



Date: _____

Mark: _____



Convert the following decimals into fractions and reduce them to the lowest terms.

1. $0.5 = \frac{\boxed{}}{10} = \frac{\boxed{}}{\boxed{}}$

2. $0.75 = \frac{\boxed{}}{100} = \frac{\boxed{}}{\boxed{}}$

3. $1.04 = \underline{\hspace{2cm}}$

4. $8.9 = \underline{\hspace{2cm}}$

5. $10.55 = \underline{\hspace{2cm}}$

6. $4.125 = \underline{\hspace{2cm}}$



Convert the following fractions into decimals.

7. $\frac{2}{5} = \frac{2 \times 2}{5 \times 2} = \frac{\boxed{}}{\boxed{}} = \boxed{}$

8. $\frac{5}{8} = \boxed{} \div \boxed{} = \boxed{}$

9. $3\frac{1}{4} = \underline{\hspace{2cm}}$

10. $17\frac{6}{25} = \underline{\hspace{2cm}}$

11. $2\frac{7}{40} = \underline{\hspace{2cm}}$

12. $7\frac{33}{50} = \underline{\hspace{2cm}}$



Reminder

Converting decimals into fractions

Eg. $0.2 = \frac{2}{10} = \frac{1}{5}$ ←

Remember to reduce the answer to the lowest term

Converting fractions into decimals

Eg. (a) $\frac{3}{5} = \frac{3 \times 2}{5 \times 2} = \frac{6}{10} = 0.6$

(b) $\frac{3}{5} = 3 \div 5 = 0.6$



Fill in the  with '>', '=' or '<'.

13. 5.16  $4\frac{1}{5}$

14. 0.08  $\frac{4}{50}$

15. $\frac{11}{11}$  1.01

16. $2\frac{1}{3}$  2.33

17. 5.065  $5\frac{13}{20}$

18. 3.88  $3\frac{22}{25}$

19. $\frac{13}{6}$  2.06

20. $1\frac{9}{25}$  1.9

21. Convert 1.06 to a fraction and reduce it to the lowest term.

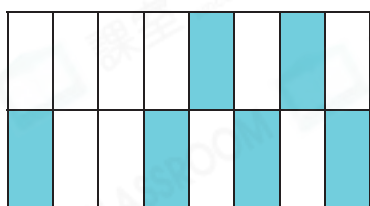
Answer:

22. Convert $8\frac{7}{15}$ into a decimal and correct it to two decimal places.

Answer: _____

23. May had two dozen pieces of fruit. $\frac{7}{8}$ of them are pears and the rest are oranges. _____ of all the fruit are pears. (Give your answer as a decimal)

24. Express the coloured parts of the following figure as a fraction and a decimal.



(a) Fraction in the lowest term:

(b) Decimal: _____

25.

I spent $1\frac{1}{4}$ hours on studying Chinese.



Bowie

I studied Chinese for 1.35 hours.



Mandy

I had spent $1\frac{1}{3}$ hours on studying Chinese.




John

Arrange their **names** by their time spent on studying Chinese, from the longest to the shortest.

Answer: _____, _____, _____
(Longest) (Shortest)

26. Which of the following is the closest to 1? (Circle the answer)

$\frac{17}{20}$, 0.8 , $1\frac{3}{25}$, 1.2

 27. If $\frac{R}{25}$ is converted into decimal, that decimal is between 0.25 and 0.3. Which of the following is a possible value of R ?

A. 6

B. 7

C. 8

D. 9