

I'm not robot!

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Name

Date

FRACTION DECIMAL PERCENT RIDDLES 2

ANSWERS

CHALLENGE A

I am less than a half.

I am not the smallest number.

I am not a percentage.

Double me is less than 80%.

Who am I? **Answer D) 0.37**

A $\frac{2}{5}$	B 45%	C $\frac{3}{4}$	D 0.37
E 68%	F $\frac{7}{10}$	G 0.83	H 23%

CHALLENGE B

I am greater than a half.

I am not the largest number.

Written as a decimal, I have more than one decimal place.

I am less than 0.7

Who am I? **Answer E) 68%**

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Lock & Key

Find the key that unlocks each lock! Connect each fraction in the lock with an equivalent decimal in the key.

5/10

12/100

2/10

6/10

15/100

6/100

4/10

3/100

0.12

0.4

0.5

0.03

0.2

0.06

0.6

0.15

Student Name: _____ Score: _____

Decimal into Fraction

Convert each decimal into fraction:

1) 0.6 =	2) 4.3 =	3) 0.22 =
4) 5.2 =	5) 0.1 =	6) 0.3 =
7) 1.5 =	8) 0.2 =	9) 2.3 =
10) 2.5 =	11) 3.2 =	12) 3.5 =
13) 1.7 =	14) 0.04 =	15) 4.2 =
16) 0.5 =	17) 2.9 =	18) 1.6 =

Ordering fractions decimals and percentages worksheet ks3. Percentage of a fraction worksheet. Converting fractions decimals and percentages worksheet ks3.

Report this resourceto let us know if it violates our terms and conditions. Our customer service team will review your report and will be in touch. arrow back Back to Fraction, Decimal and Percentage Equivalence Whether you want a homework, some cover work, or a lovely bit of extra practise, this is the place for you. And best of all they all (well, most!) come with answers. Contents Mathster is a fantastic resource for creating online and paper-based assessments and homeworks. They have kindly allowed me to create 3 editable versions of each worksheet, complete with answers. Worksheet Name 1 2 3 Converting Between Fractions, Decimals and Percentages 1 2 3 Fractions, Decimals and Percent - Conversion Table 1 2 3 Corbett Maths keyboard_arrow_up Back to Top Corbett Maths offers outstanding, original exam style questions on any topic, as well as videos, past papers and 5-a-day. It really is one of the very best websites around. GCSE 1 - 3KS3AQAEexcelOCRWJECAQA November 2022Edexcel November 2022OCR November 2022WJEC November 2022Foundation In shops, you will frequently see discounts written as 50% off or $\frac{1}{2}$ price but never as 0.5 times the original cost. Similarly when converting currency, the exchange rate will never be quoted as a percentage but rather as a decimal. All three are mathematically equivalent ways of saying the same thing but we default to using the one that is most appropriate in that scenario. The table shows some important common conversions between fractions, decimals and percentages that you should remember. Level 1-3GCSEKS3 Level 1-3 GCSE KS3 Convert fractions to decimals - treat the fraction like a division and divide the number on the top by the number on the bottom. e.g. $\frac{9}{20} = 9 \div 20 = 0.45$ Convert decimals to percentages - multiply by 100 (move the decimal point right 2 places). e.g. $0.45 \times 100 = 45\%$ Level 1-3GCSEKS3 Convert percentages to decimals - divide by 100 (shift the decimal point left 2 places). e.g. $64\% \div 100 = 0.64$ Convert decimals to fractions - for terminating decimals (i.e. decimals that don't go on forever) we write the decimal as a fraction with 1 on the bottom. Then, keep multiplying top and bottom by 10 until the decimal becomes a whole number. Then you can simplify the fraction if needed. e.g. $0.79 = \frac{79}{100}$ For recurring decimals it can be more tricky (see the recurring decimals to fractions page) Level 1-3GCSEKS3 Level 1-3 GCSE KS3 a) Write 37% as a decimal. [1 mark] To convert this to a decimal we will divide by 100, so we get $37 \div 100 = 0.37$ b) Write 0.548 as a percentage. [1 mark] To convert this to a percentage we will multiply by 100, so we get $0.548 \times 100 = 54.8\%$ Level 1-3 GCSE KS3 a) Write $\frac{12}{25}$ as a decimal. [2 marks] Dividing 12 by 25 doesn't sound too pleasant, but there is a way we can change the fraction (before dividing top by bottom) to make life easier. Notice that $25 \times 4 = 100$ and dividing by 100 is straightforward. So, if we multiply top and bottom by 4 we get $\frac{12 \times 4}{25 \times 4} = \frac{48}{100} = 0.48$ b) Write $\frac{11}{8}$ as a decimal. [2 marks] In this case, there is no nice shortcut. We'll just have to divide 11 by 8 in whichever way feels most comfortable - here, we'll go for the bus stop method. Doing this, we get the picture shown above, (click here to revise the bus stop method) and we see that the result is, $\frac{11}{8} = 1.375$ Level 1-3GCSEKS3 Level 1-3 GCSE KS3 Write 4.56 as a fraction in its simplest form. [2 marks] Any number divided by 1 is equal to itself, so we can write 4.56 as $\frac{4.56}{1}$. Now, if we multiply top and bottom by 100 we get $\frac{4.56}{1} = \frac{456}{100}$ All that remains now is to simplify it. Cancelling down, $\frac{456}{100} = \frac{114}{25}$ Level 1-3 GCSE KS3 Write 48.1% as a fraction. [1 mark] Percentages are already out of 100, so $48.1\% = \frac{48.1}{100}$ Then, multiplying top and bottom by 10 (to make the numbers whole) we get $48.1\% = \frac{481}{1000}$ Level 1-3 GCSE KS3 Write $\frac{4}{5}$ as a percentage. [1 mark] Firstly, let's convert it to a decimal. Notice that if we times top and bottom by 2, the fraction becomes $\frac{4}{5} = \frac{8}{10} = 0.8$ Then, to convert this decimal to a percentage, we times by 100: $0.8 \times 100 = 80\%$ Note: Alternatively, if you can write a fraction with 100 on the denominator, then the value on the top immediately gives you what the fraction would be as a percentage. For example, $\frac{34}{50} = \frac{68}{100} = 68\%$ Level 1-3 GCSE KS3 Example Questions We can express this percentage as a decimal simply by dividing by 100, $55.4\% \div 100 = 0.554$ We can express this percentage as a fraction by dividing by 100, $\frac{16.4}{100} = \frac{164}{1000}$ To make the numbers whole, we multiply top and bottom by 10, $\frac{16.4 \times 10}{100 \times 10} = \frac{164}{1000}$ Now, we simplify until there are no common factors left. So, we find, $\frac{164}{1000} = \frac{82}{500} = \frac{41}{250}$ We will treat the fraction like a division and divide 17 by 40, $\frac{17}{40} = 0.425$ Therefore, $\frac{17}{40} = 0.425$ We can express this decimal as a fraction, $0.256 = \frac{256}{1000}$ To make the numbers whole, we multiply top and bottom by 1000, $\frac{0.256}{1} = \frac{256}{1000}$ Now, we simplify until there are no common factors left. So, we find, $\frac{256}{1000} = \frac{32}{125}$ A simpler method than diving 13 by 20 in its current form is to notice that $20 \times 5 = 100$ and dividing by 100 is straightforward. So, if we multiply top and bottom by 5 we get, $\frac{13}{20} = \frac{65}{100} = 0.65$ Worksheet and Example Questions You May Also Like... Revise for your GCSE maths exam using the most comprehensive maths revision cards available. 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