

Free ebook Equivalent ratios answers [PDF]

evaluate equivalent ratios enter a b c and d is the ratio a b equivalent to the ratio c d the calculator finds the values of a b and c d and compares the results to evaluate whether the statement is true or false how to find equivalent ratios as we know two or more ratios are equivalent if their simplified forms are the same thus to find a ratio equivalent to another we have to multiply the two quantities by the same number q 1 find the equivalent ratios of 8 18 solution let us first write the given ratio as a fraction $\frac{8}{18}$ now multiply the numerator and denominator by 2 $\frac{8 \times 2}{18 \times 2} = \frac{16}{36}$ or we can write the above fraction as a ratio 16 36 so 16 36 is an equivalent ratio of 8 18 q 2 find any two equivalent ratios of 4 5 equivalent ratios are those that can be simplified or reduced to the same value in other words two ratios are considered equivalent if one can be expressed as a multiple of the other some examples of equivalent ratios are 1 2 and 4 8 3 5 and 12 20 9 4 and 18 8 etc ratio of a to b a b a b the first quantity of the ratio is called antecedent whereas the second quantity of the ratio is called consequent in the above example 1 is the antecedent and 3 is the consequent so what are equivalent ratios let s see an example equivalent ratios understanding equivalent ratios google classroom about transcript sal discusses what it means for two ratios to be equivalent comparing ratios is essential for determining equivalent relationships between quantities learn how to fill out tables of equivalent ratios a ratio table gives a bunch of equivalent ratios let s look at an example where we ll build a ratio table ben drinks 1 glass of milk for every 2 cookies that he eats we can use this ratio to begin a ratio table glasses of milk cookies 1 2 30 2 30 2 2 2 15 1 since either of the ratios can be scaled by a factor of 2 to equal the other they are equivalent ratios equivalent ratios and proportions can be used in many everyday situations one such example is baking below is a slightly more involved word problem involving equivalent ratios example 20 30 40 6th grade course 6th grade unit 1 ratio tables google classroom pat can drive 36 kilometers for every 3 liters of gas they put in their car complete the table using equivalent ratios do 4 problems simplifying and equivalent ratios worksheets with answers whether you want a

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mastering these techniques helps students tackle real world math challenges 4 2 and 2 1 are equivalent ratios how do we write equivalent ratios equivalent ratios can be determined by up or scaling down a ratio scaling scaling up a ratio we scale up a ratio by a scale factor which means multiplying each term of the ratio by a given scale factor example give 3 equivalent ratios for 2 3 sample problem 1

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q 1 find the equivalent ratios of 8 18 solution let us first write the given ratio as a fraction $\frac{8}{18}$ now multiply the numerator and denominator by 2 $\frac{8 \times 2}{18 \times 2} = \frac{16}{36}$ or we can write the above fraction as a ratio 16 36 so 16 36 is an equivalent ratio of 8 18 q 2 find any two equivalent ratios of 4 5

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equivalent ratios are those that can be simplified or reduced to the same value in other words two ratios are considered equivalent if one can be expressed as a multiple of the other some examples of equivalent ratios are 1 2 and 4 8 3 5 and 12 20 9 4 and 18 8 etc

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ratio of a to b a b a b the first quantity of the ratio is called antecedent whereas the second quantity of the ratio is called consequent in the above example 1 is the antecedent and 3 is the consequent so what are equivalent ratios let s see an example

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15 2 1 2 30 2 30 2 2 2 15 1 since either of the ratios can be scaled by a factor of 2 to equal the other they are equivalent ratios equivalent ratios and proportions can be used in many everyday situations one such example is baking below is a slightly more involved word problem involving equivalent ratios example

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a ratio of 1 2 can be entered into the equivalent ratio calculator as 1 2 2 10 would be 2 10 3 4 would be 3 4 and so on the equivalent ratio calculator will produce a table of equivalent ratios which you can print or email to yourself for future reference you can select how many equivalent ratio examples you need

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4 2 and 2 1 are equivalent ratios how do we write equivalent ratios equivalent ratios can be determined by up or scaling down a ratio
scaling scaling up a ratio we scale up a ratio by a scale factor which means multiplying each term of the ratio by a given scale factor
example give 3 equivalent ratios for 2 3 sample problem 1

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