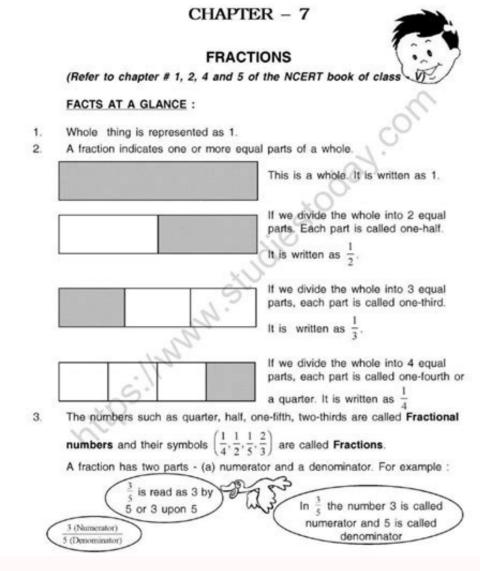
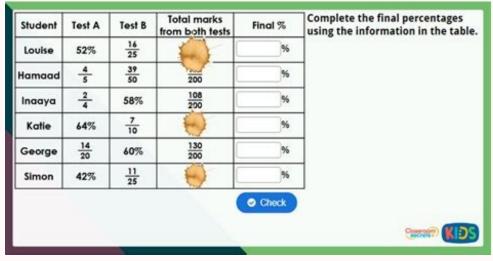
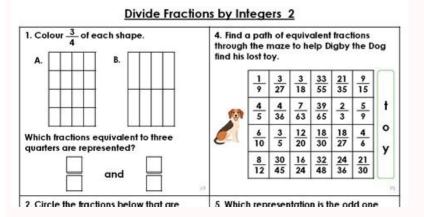
Compare fractions worksheet year 6

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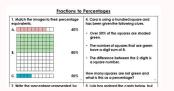






Fractions and Decimals - Worksheets	
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NUMBER AND ALGEBRA

Compare and order fractions year 6 worksheet.

Copyright © 2021 K5 Learning Are your fractions kills a little rusty? Don't fear! In this article, we will guide you through everything you need to know about Year 7 fractions. Syllabus Outcomes This article deals with the following NESA Syllabus Outcomes This article deals with the following NESA Syllabus Outcomes This article deals with the following NESA Syllabus Outcomes (New York Content of the following NESA Syllabus Outcomes) and skills a little rusty? develop your Maths skills. Your worksheet is on the way! Check your email for the downloadable link. (Please allow a few minutes for your download to land in your inbox) NESA Syllabus Outcomes Syllabus Outcomes Explanation Communicates and connects mathematical ideas using appropriate terminology, diagrams and symbols This means that you will be able to identify fractions in problem questions and solve them. Applies appropriate mathematical techniques to solve problems This means that you will be able to identify and express equivalent fractions. Operates with fractions, decimals and percentages This means you will solve problems that deal with fractions, decimals and percentages. Outline Fractions, decimals and percentages This means you will solve problems that deal with fractions. due to the complexity of the operations. Eq. When to add/subtract certain numbers versus when to multiply numbers. However, it is an extremely important fundamental topic that is heavily applied in all areas of maths. So, make sure you understand how to work with fractions! Assumed Knowledge Students should be familiar with elementary BODMAS operations (how to add, subtract, divide and multiply in the correct order) and simple equations. Students should know how to find the LCM (lowest common factor) of a group of numbers. Do you know it all, or just a fraction? What are fractions? Generally, we refer to fractions as part of a whole. For example: \(\frac{1}{2}\) (half) a pizza \(\frac{3}{4}\) (three-quarters) of an hour. \(3\frac{2}{3}\) means there are \(3\) whole objects, as well as \(\frac{2}{3}\) frac{2}{3}\) into \(3\) equal parts. Fractions are written as one number divided by another. The top number is called the numerator, and the bottom number is called the vinculum (you don't need to remember this), which is another way of writing ((div)) (you need to remember this)). This then means that the numerator is divided by the denominator. Fractions are just another way to express division! Eg. \(\frac{2}{3}\) is just another way to write \(2 \div 3\). Types of fractions The numerator is greater than the denominator. For example, \(\frac{2}{5}\) (\frac {7} {2}\) Mixed numbers A combination of a whole number and a fraction. For example, \(3\frac {2} {3}\) Expressing mixed fraction can also be expressed as an improper fraction, and an improper fraction can be expressed as a mixed fraction. Expressing mixed fractions as improper fractions as improper fraction, and an improper fraction can also be expressed as a mixed fraction can also be expressed as an improper fraction can be expressed as a mixed fraction. fractions To do this, we: Multiply the whole number by the denominator of the fraction Add this number to the numerator $For example \left\{2\} \left(color{blue}{3} + color{blue}{3}\right) = color{blue}{3} + color{blue}{3} = color{blue}{3} + color{blue}{3} = color{blue}{3} + color{blue}{3} +$ $\{3\times5\}+(color\{red}{2})$ = $\frac{17}{5} = \frac{17}{6} = \frac{17}$ remaining the same), and the number of times the denominator divides into the numerator becomes the whole number. Example: We can reverse the process of going from mixed numbers to improper fractions as follows: \begin{align*} \frac{25}{9} = \frac{7}{9} \end{align*} But this is a lot of work! Instead we do the following: Think: What is \(2 \div 9 \)? The answer is \(2 \frac{1}{2} \). Note: that there is a negative in this question. Keep the negative symbol where it is! The conversion still follows the same process. Equivalent fractions Equivalent fractions are fractions that have the same mathematical value but have different numerators and denominators. Although they may look different from each other, they are mathematically the same. Eg. \(\frac{1}{2} \), \(\frac{1 multiply (or divide) the numerator and denominator by \(3\). \(\rightarrow\) This gives us \(\frac{3}{6} \). We can find an equivalent for \(\frac{10}{15} \)by dividing both number and denominator by \(5\). \(rightarrow This gives us (($rac{3}{4}$), trac{3}{4}, rightarrow ($rac{3}{4}$), trac{3}{4}, rightarrow ($rac{3}{4}$, ri fractions Simplifying a fraction means to rewrite the fraction as an equivalent fraction, so that the numerator and denominator are as small as possible. Like equivalent fractions, you can simplify a fraction if its numerator and the denominator have a common factor. We can divide both numerator and denominator by this number to create a simplified fraction that is equivalent to the original fraction. You keep simplifying a fraction until the numerator and denominator don't have a common factor anymore - this is its simples: 1. Simplify \(\frac{14}{22} \) Both \(14\) and \(22\) are divisible by \(2\), so we can divide both top and bottom: \begin{align*} \frac{14}{22} = \frac{7}{7} {11} \end{align*} \(7\) and \(11\) don't have any common factors. So, this is its simplest form. What to ask yourself: Do both the numerator and denominator by this number No - This is the fraction's simplest form. Repeat step 1 until there are no numbers which will divide exactly into the numerator and denominator. We usually look for the highest common factor when simplifying fractions. Don't worry if you can't identify it at first, you can always continue simplifying the fraction. 2. Simplify \(\frac{56}{64} \) This looks like a hard fraction to simplify, but we can start off with an easy factor: \(2\). Dividing both numerator and denominator by (2): $begin{align*} (7) and (8) don't have a common factor. So, this <math>(\frac{7}{8})$ is the simplest form! Ordering fractions Comparing the size of fractions. In order to compare the size of two fractions, the first step is to choose a new denominator should be a number which both denominator should be a number which both fractions. The new denominator should be a number which both denominator should be a number which both fractions. $(\frac{5}{7})$. The denominators are (4) and (7) are factors of. Then we change both fractions into an equivalent fraction with (28) as the new denominator and (7) are factors of. Then we change both numerator and (7) are factors of. Then we change both fractions into an equivalent fraction with (28) as the denominator are (4) and (7) are factors of. Then we change both fractions into an equivalent fraction with (28) as the denominator are (4) and (7) are factors of. Then we change both fractions into an equivalent fraction with (28) as the denominator are (4) and (7) are factors of. Then we change both fractions into an equivalent fraction with (28) as the denominator and (7) are factors of. denominator by (7) to create an equivalent fraction) begin{align*} (hy multiplying both numerator and denominator by (4) to create an equivalent fraction). So we know that $(\frac{1}{28} > \frac{1}{28} > \frac{1}{28}$ in terms of the original question. Hence, $(\frac{5}{4} > \frac{5}{7})$. Addition and subtraction of fractions in the question have the same denominator. With same denominator already, we simply add or subtract the numerators without changing the denominator. You should then simplify the answer (mixed fraction if applicable). For example (\ \frac{1}{8} + \frac{5}{9} + \frac{1}{6} = \frac{5}{9} \) (simplified into mixed fraction) Examples: 1. What number should replace in the following? \begin{align*} \frac{1}{6} = \frac{1}{9} = \frac{1}{6} = \frac{1}{9} = \frac{1}{9} = \frac{1}{9} = \frac{1}{9} = \frac{1}{6} = \frac{1} + $\frac{1}{6} = \frac{1}{1}$ we need to $\frac{1}{3}$. Different denominator (which is the case most of the time), we need to change them so that they have the same denominator. Remember, we can add or subtract fractions ONLY when they have the same denominator. To do this: Find a common multiple of the two denominator (lowest common multiple of the two denominator). Convert each fraction with the new denominator (lowest common multiple of the two denominator) are each fraction with the new denominator. common denominator of \(\frac{5}{8} \),\(\frac{5}{8} \),\(\frac{2}{3} \)? The lowest common multiple of \(3\) and \(3\) is \(24\). 2. Simplify \(\frac{2}{3} + \frac{5}{6} \) The lowest common multiple of \(3\) and \(6\) is \(6\). This means we have to change \(\frac{2}{3} \)into an equivalent fraction with \(6\) as the denominator, in order for us to add the two fractions. $\end{bgin}align* \frac{2}{3} + \frac{5}{6} &= \frac{4}{6} + \frac{5}{6} &= \frac{3}{2} &= \$ $frac{3}{1} = \frac{1}{3} = \frac$ 1\frac{3}{4} +2 \frac{1}{3} - 1 \frac{1}{2} &= (1+2-1) + \frac{3}{4} + \frac{1}{3} - \frac{1}{2} \\ &= 2 \frac{7}{12} \end{align*} The other method is to simply convert the mixed fractions into improper fractions before adding or subtracting. You may choose to convert the answer back to a mixed number. Examples

1. Simplify $(1 \frac{3}{4} + 2 \frac{1}{3} - \frac{1}{3}$ improper fractions before starting operations. Unlike for addition and subtraction, it doesn't matter if the denominators are different in multiplying the numerators and multiplying the denominators are different in multiplication of fractions is found by multiplying the numerators and multiplying the denominators are different in multiplication. $\frac{3}{4} = \frac{3}{4} = \frac{3}$ fractions. In the example above, we see that (2) (the numerator of the 2nd fraction) and (4) (the denominator of the 1st fraction) have a common factor of (2). Thus, we can divide both numbers by (2) first to convert our equation into a simpler multiplication step: $begin{align*} frac{3}{color{red}{4}} = 0$ \frac{3}{2}\times \frac{1}{7} = \frac{3}{14} \end{align*} Remember, you CANNOT do this for addition and subtraction. The cancellation technique between different fractions ONLY works for MULTIPLICATION (and division), when the numerator and denominator cancel. You cannot cancel across two numerators. Multiplying mixed numbers To multiply mixed numbers, we have to change them to improper fractions first. You cannot multiply the whole numbers and fractions separately. Once converted, we can multiply them as we usually do - by multiplying the numerator and denominator separately. Separately. Example: $\frac{1}{5}$ times $\frac{1}{5}$ t upside down. For example, the reciprocal of \(\frac{5}{12}\) is \(\frac{12}{5}\). Reciprocals are always used in the division of fractions. Division To divide two fractions, we change the question into a multiplication. We keep one fractions, we change the question into a multiplication. We keep one fractions the average the question into a multiplication. We keep one fractions the average the question into a multiplication of fractions. Division To divide two fractions are always used in the division of fractions. $\color{red}{\red}{\sin c{7}{6}}\ \ext{1}{4}\times \color{red}{\red}{\red}{\sin c{7}{6}}\ \ext{1}{6}\times \color{red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{\red}{$ much do (8) pens cost? The cost of (1) pen is (105 = \$2). This can be solved in one step by multiplication by (8). Summary 1. Mixed fraction To express a mixed fraction as an improper fraction, multiply the denominator by the whole number and add the numerator (this is the new numerator). The denominator stays the same. 2. Equivalent fractions Multiply a number to both numerator and denominator, or divide the numerator and denominator by a common factor. 3. Simplifying fractions The lowest equivalent form that the fraction can have. 4. Ordering fractions Change each fraction to an equivalent fraction with the same denominator, then compare the numerators 5. Adding and subtracting fractions If the denominators are different, find the lowest common multiple of the two denominators. Then, find equivalents of each fraction with the new denominator. Add/subtract the numerators without changing the denominator 6. Multiplying fractions If the fraction is mixed, convert it to an improper fraction first. Multiply the numerators, then multiply the numerators, then multiply the denominator 6. Multiply in the reciprocal (flipped) of the other. Checkpoint questions and solutions Questions 1. Rewrite \(\frac{-17}{2} \) as a mixed number. 2. Simplify \(\frac{3}{144}\) 3. What are \(\alpha \) and \(\beta \) in: 4. Arrange the following group of fractions in ascending order (from smallest to largest) 5. Simplify \(\frac{2}{13} - \Big{(} \frac{11}{13} - \Big{(} \frac{11 $\left(\frac{1}{2}\right) = \frac{1}{2} \right) 0.$ Simplify (\ $\frac{1}{2} \right) 0.$ Solutions 1. Rewrite (\ $\frac{1}{2} \right) 0.$ Simplify (\ $\frac{1}{2} \right) 0.$ Simplify (\ $\frac{1}{2} \right) 0.$ Solutions 1. Rewrite (\ $\frac{1}{2} \right) 0.$ $\frac{144} = \frac{144} + \frac$ question converts $(\frac{5}{7})$ to equivalent fractions. We multiply (7) in the denominator by (9) to get (63), so we multiply the numerator, we have to multiply (7) by (-7). $begin{align*} = 7 \times -7 = 35 \\ align* + 4. \\ arrange = 7 \\ arrange = 7$ the following group of fractions in ascending order (from smallest to largest) \begin{align*} \frac{5}{12}; \rac{5}{12}; \rac{5}{12}; \rac{5}{12}; \rac{5}{12}; \rac{5}{12 the denominator, then compare the numerator. $\ 0 \in 13{24} \ 124 = \frac{10}{24} \ 124 < \frac{10}{24} < \frac{10$ Using the original fractions, $(\frac{13}{24} < \frac{13}{4} <$ subtracting negative fractions!) \begin{align*} (frac{9}{13} - \Big{(} \frac{9}{13} + \frac{9}{13} + \frac{16}{13} + \frac{16 denominator gives us: \begin{align*} \frac{25}{40} - \Big{(} \frac{36}{40} - \Big{(} \frac{30}{30} \Big{)}\\ &= \frac{19}{40} - \Big{(} \frac{36}{40} - \Big{(} \frac{36}{40} - \Big{(} \frac{19}{40} - \Big{(} \frac{10}{40} $times \frac{1}{2} \times e^{1}{1} = \frac{1}{1} + \frac{1}{1}$ multiplications first, then addition/subtraction. \begin{align*} \frac{3}{4} + 1\frac{1}{28} \k= \frac{3}{4} + 1\frac{1}{28} \k= \frac{3}{4} + 1\frac{1}{28} \k= \frac{3}{4} + 1\frac{1}{28} \k= \frac{1}{28} \k= convert all mixed fractions to improper fractions. \begin{align*} 3 \frac{5}{9} \div 9 \frac{32}{9} \div \frac{32}{9} \ guality resources, and forums to ask your Matrix teachers guestions and for feedback. Learn more about our Matrix + Online course now! Boost your Band 5 marks into Band 6s!Clear, structured Theory Lesson Videos and one-to-one help to give you exam confidence.
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