Negative indices worksheet gcse

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	Negative Powers	Reciprocals
Learning Objective: Evalu Use the rules of indices to	$x^{-1} = 1/x$	
a) 4 <sup>-1</sup>	b) 6 <sup>-2</sup>	
c) 3 <sup>-2</sup>	d) 5 <sup>-2</sup>	
e) $\left(\frac{2}{3}\right)^{-1}$	f) $\left(\frac{4}{5}\right)^{-2}$	
g) 0.5 <sup>-1</sup>	h) 0.4 <sup>-2</sup>	
i) $\left(1\frac{1}{4}\right)^{-3}$	$\left(\frac{a}{b}\right)^{-5}$	

Question 1: Evaluate each of the following

(a) 
$$5^{-2} \stackrel{i}{125}$$
 (b)  $2^{-1} \stackrel{(c)}{12}$  (c)  $2^{-3} \stackrel{(d)}{13}$  (d)  $4^{-2} \stackrel{(e)}{13}$   $3^{-3} \stackrel{(f)}{127}$   $6^{-1} \stackrel{(f)}{16}$   
(g)  $10^{-2} \stackrel{(h)}{100}$   $2^{-4} \stackrel{(i)}{16}$   $9^{-2} \stackrel{(i)}{31}$   $3^{-4} \stackrel{(k)}{101}$   $10^{-1} \stackrel{(l)}{100}$   $7^{-2} \stackrel{(f)}{100000}$   
(m)  $2^{-5} \stackrel{(n)}{125}$  (n)  $5^{-3} \stackrel{(o)}{125}$   $2^{-6} \stackrel{(p)}{104}$  (q)  $6^{-3} \stackrel{(r)}{100000}$   $10^{-6} \stackrel{(f)}{1000000}$   
Question 2: Write each of the following in index form.  
(a)  $\frac{1}{5^2} \stackrel{(b)}{5^{-2}}$   $\frac{1}{3^4} \stackrel{(c)}{3^{-4}}$   $\frac{1}{8^3} \stackrel{(f)}{3^{-3}}$   $\frac{1}{4^5} \stackrel{(e)}{4^{-5}}$   $\frac{1}{10^3} \stackrel{(f)}{3^{-5}}$   $\frac{1}{2^6} \stackrel{(f)}{2^{-6}}$   
Question 3: Write each of the following in the form  $2^n$   
(a)  $\frac{1}{2} \stackrel{(b)}{2^{-1}} \stackrel{1}{4} \stackrel{(c)}{2^{-2}} \stackrel{1}{32} \stackrel{(c)}{2^{-5}} \stackrel{1}{32} \stackrel{(e)}{2^{-5}} \stackrel{1}{64} \stackrel{(f)}{2^{-6}} \stackrel{1}{256} \stackrel{(f)}{2^{-8}}$   
Question 4: Write each of the following in the form  $5^n$   
(a)  $\frac{1}{125} \stackrel{(b)}{5^{-3}} \stackrel{1}{25} \stackrel{(c)}{5^{-7}} \stackrel{1}{5} \stackrel{(c)}{5^{-7}} \stackrel{1}{3125} \stackrel{(e)}{5^{-5}} \stackrel{1}{625} \stackrel{(f)}{5^{-6}} \stackrel{1}{625} \stackrel{(f)}{5^{-6}} \stackrel{1}{5^{-6}} \stackrel{(f)}{5^{-6}} \stackrel{1}{5^{-6}} \stackrel{(f)}{5^{-6}} \stackrel{1}{5^{-6}} \stackrel{(f)}{5^{-6}} \stackrel{1}{5^{-6}} \stackrel{(f)}{5^{-6}} \stackrel{(f)}{5^{-6}} \stackrel{1}{5^{-6}} \stackrel{(f)}{5^{-6}} \stackrel{(f)}{5$ 

## Negative Indices

Write the following as fractions without indices:

a. 5<sup>-1</sup> = b. 3<sup>-4</sup> = c. 2<sup>-3</sup> =

d. 10 <sup>-2</sup> =	e. 4 <sup>-3</sup> =	f. 3 <sup>-3</sup> =
g. 11 <sup>-2</sup> =	h. 2 <sup>-8</sup> =	i. 5 <sup>-4</sup> =
j. 2 × 3 <sup>-2</sup> =	k. 3×3 <sup>-4</sup> =	I. 2 <sup>5</sup> × 10 <sup>-4</sup> =

2. Write the following fractions in index form:

a.  $\frac{1}{2}$  = b.  $\frac{1}{3}$  = c.  $\frac{1}{7}$  = d.  $\frac{1}{5^3}$  = e.  $\frac{1}{2^2}$  = f.  $\frac{1}{8^7}$  =

- 3. Fill in the gaps to convert these fractions into index form: a.  $\frac{1}{25} = 5$ b.  $\frac{1}{16} = 2$ c.  $\frac{1}{27} = 3$ 
  - d.  $\frac{1}{100} =$  e.  $\frac{2}{9} = 2 \times 3^{-1}$  f.  $\frac{4}{36} = 2^{-1} \times 6^{-1}$
  - 9.  $\frac{25}{64} = 5 \times 4$  h.  $\frac{8}{121} = 2 \times 11$  i.  $\frac{125}{27} = 3 \times 2^{-3}$
- 4. Convert the following decimals into index form using negative indices:

a.	0.1 =	ь.	0.25 =	c.	0.125 =
d.	0.0001 =	е.	0.04 =	f.	0.0625 =





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This resource hasn't been reviewed yetTo ensure quality for our reviews, only customers who have downloaded this resource to let us know if it violates our terms and conditions. Our customer service team will be in touch. Here we will learn how to simplify and evaluate with negative indices for GCSE & iGCSE maths (Edexcel, AQA and OCR). Look out for the laws of indices are powers (also called exponents) with a minus sign in front of them. E.g. We get negative indices by dividing two terms with the same base where the first term is raised to a power that is smaller than the power that the second term is raised to  $x \times times x \times times$ indices we know that \[x^{3} \div x^{4}=x^{{-1}}] So, Get your free negative indices worksheet of 20+ questions and answers. Includes reasoning and applied questions. DOWNLOAD FREE To make the negative index positive we put the term over 1 and flip it. It is known as finding the reciprocal of the term. E.g.  $[x^{-2}]$  is the same as E.g.  $[2^{-3}]$  is the same as E.g.  $[2^{-3$ and multiplication laws. Simplify and leave your answer in index form. Put the term from the question over 1. 2 Flip and change the power from -4 to +4. Simplify the denominator. \[=\frac{1}}  $\{1000 a^{3}\}\$  Simplify and leave your answer in index form. Notice how the index only affects the variable b.  $\begin{aligned}{3 b^{-2}}\$  bhe variable b.  $\begin{aligned}{3 b^{-2}}\$  be variable b.  $\begin{aligned}{3 b^{-2}}\$  b  $\left(\left(\frac{4}{3}\right)\right)$  The index only applies to the variable b and not the coefficient 3. When dealing with fractions it is easier to skip to step 2. Evaluate  $\left(\left(\frac{4}{3}\right)\right)^{-2} = \left(\frac{4}{3}\right)^{-2} \right)$  Simplify the numerator and denominator.  $\left(\frac{4}{3}\right)^{-2} = \left(\frac{4}{3}\right)^{-2} =$  $\&=\frac{3^{2}}{4^{2}} \$  Raising a term to the power of 3 means we find the square root of it. E.g.  $[a^{1}_{2}] \$ \times a\] Raising a term to the power of 1/3 means we find the cube root of it. E.g. \[a^{\frac{1}{3}}=\sqrt[3]{a}\] Indices, powers or exponents. Not turning a negative index into a positive index when flipping the term Making a mistake when writing one over a fraction E.g When we find the reciprocal of  $\left[\left\frac{1}{\left(\frac{2}{3}\right)}\right] = \frac{1}{1} 2 Flip and change the power -2 to +2 [[frac{1}{\left(\frac{2}{3}\right)}] 2 Flip and change the power -2 to +2 [[frac{1}{\left(\frac{2}{3}\right)}] 3 Simplify the denominator [] frac{1}{\left(\frac{2}{3}\right)}] 3 Simplify the denominator [] frac{1}{\left(\frac{2}{3}\right)} = \frac{1}{1} 2 Flip and change the power -2 to +2 [[frac{1}{\left(\frac{2}{3}\right)}] 3 Simplify the denominator [] frac{1}{\left(\frac{2}{3}\right)} = \frac{1}{1} 2 Flip and change the power -2 to +2 [[frac{1}{\left(\frac{2}{3}\right)}] 3 Simplify the denominator [] frac{1}{\left(\frac{2}{3}\right)} = \frac{1}{1} 2 Flip and change the power -2 to +2 [[frac{1}{\left(\frac{2}{3}\right)}] 3 Simplify the denominator [] frac{1}{\left(\frac{2}{3}\right)} = \frac{1}{1} 2 Flip and change the power -2 to +2 [[frac{1}{\left(\frac{2}{3}\right)}] 3 Simplify the denominator [] frac{1}{\left(\frac{2}{3}\right)} = \frac{1}{1} 2 Flip and change the power -2 to +2 [[frac{1}{\left(\frac{2}{3}\right)}] 3 Simplify the denominator [] frac{1}{\left(\frac{2}{3}\right)} = \frac{1}{1} 2 Flip and change the power -2 to +2 [[frac{1}{\left(\frac{2}{3}\right)}] 3 Simplify the denominator [] frac{1}{\left(\frac{2}{3}\right)} = \frac{1}{1} 2 Flip and change the power -2 to +2 [[frac{1}{\left(\frac{2}{3}\right)}] 3 Simplify the denominator [] frac{1}{\left(\frac{2}{3}\right)} = \frac{1}{1} 2 Flip and change the power -2 to +2 [[frac{1}{\left(\frac{2}{3}\right)}] 3 Simplify the denominator [] frac{1}{\left(\frac{2}{3}\right)} = \frac{1}{1} 2 Flip and change the power -2 to +2 [[frac{1}{\left(\frac{2}{3}\right)}] 3 Simplify the denominator [] frac{1}{\left(\frac{2}{3}\right)} = \frac{1}{1} 2 Flip and change the power -2 to +2 [[frac{1}{\left(\frac{2}{3}\right)}] 3 Simplify the denominator [] frac{1}{\left(\frac{2}{3}\right)} = \frac{1}{1} 2 Flip and change the power -2 to +2 [[frac{1}{\left(\frac{2}{3}\right)}] 3 Simplify the denominator [] frac{1}{\left(\frac{2}{3}\right)} = \frac{1}{1} 2 Flip and change the power -2 to +2 [[frac{1}{\left(\frac{2}{3}\right)}] 3 Simplify the denominator [] frac{1}{\left(\frac{2}{3}\right)} = \frac{1}{1} 2 Flip and change the power -2 to +2 [[frac{1}{\left(\frac{2}{3}\right)}] 3 Simplify the denominator [] frac{1}{\left(\frac{2}{3}\right)} = \frac{1}{1} 2 Flip and change the power -2 to +2 [[frac{1}{\left(\frac{2}{3}\right)}] 3 Simplify the power -2 to +2 [[frac{1}{\left(\frac{2}{3}\right)}] 3 Simplify the power -2 to +2 [[frac{1}{\left(\frac{2}{3}\right)}] 3 Simplify the pow$  $\{9\}\$  However, the fraction needs to be simplified further.  $[\frac{9}{4}]$  This is why when dealing with fractors it is easier to skip to step 2 and just flip the fraction:  $[\frac{9}{4}]$  Practice negative indices questions The negative index number means we need to find the reciprocal, so  $x^{-5}=\frac{1}{x^{5}}$  The negative index number means we need to find the reciprocal, so  $\frac{1}{2b}$  and aligned. The negative index number means we need to find the reciprocal, so  $\frac{1}{4}$  and aligned. The negative index number means we need to find the reciprocal, so  $\frac{1}{4}$  and aligned. The negative index number means we need to find the reciprocal, so  $\frac{1}{4}$  and aligned. The negative index number means we need to find the reciprocal, so  $\frac{1}{4}$  and aligned. The negative index number means we need to find the reciprocal, so  $\frac{1}{4}$  and aligned. The negative index number means we need to find the reciprocal, so  $\frac{1}{4}$  and aligned. The negative index number means we need to find the reciprocal, so  $\frac{1}{4}$  and aligned. The negative index number means we need to find the reciprocal, so  $\frac{1}{4}$  and the reciprocal, so  $\frac{1}{4}$  and the reciprocal, so  $\frac{1}{4}$  and the reciprocal an index number means we need to find the reciprocal, so  $b^{-3}=\frac{1}{(\frac{5}{3})}$  The negative index number means we need to find the reciprocal, so  $b^{-2}(1 \text{ mark}) = \frac{1}{(\frac{5}{3})}$  $\left(\frac{5}{4}\right)^{2} (1) \left(\frac{25}{16} (1) 3. Evaluate (1) 3. Evaluate$ indices Proof mathsFunctions in algebraSequences Prepare your KS4 students for maths GCSEs success with Third Space Learning. Weekly online one to one GCSE maths revision lessons delivered by expert maths tutors. Find out more about our GCSE maths revision programme. September 2, 2019 corbettmaths Last updated4 February 2021Great for homework or revision. A detailed worksheet on evaluating negative indices. Includes combining them with the indices have made a generation of students fall behind. Flow Mathematics uses clever psychology to help them catch up at home for just 1 hour per week. Click the link below to get our 5 point plan! Creative Commons "Sharealike" Select overall rating (no rating) Your rating is required to reflect your happiness. Write a reviewUpdate existing reviewIt's good to leave some feedback. Something went wrong, please try again later. This resource hasn't been reviews, only customers who have downloaded this resource to let us know if it violates our terms and conditions. Our customers who have downloaded this resource to let us know if it violates our terms and conditions. Simplify the following expressions. (a)  $(x^{-3})(b) ((2x^{-3})(c) ((3x^{-2} + 2x^{-2}))(b) ((2x^{-3})(c) ((3x^{-2} + 2x^{-2}))(c) ((3x^{-2} + 2x$ 3x^{-2}y^{-3}) This video is about fractional negative indices for GCSE maths, and is aimed at around grade 7+. The questions are fairly tough although, if you follow the method, they should be straightforward ... Please do - stop the video - work through the question - compare your solution

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