Mathematics Skill Booklet



KS3 (2)

Ordering Fractions

Order the following fractions from the smallest to the biggest!



Order the following fractions from the biggest to the smallest!



Multiplication and Addition

Calculate

Carculate		
$3 \times 2 + 22 =$	9 x 3 + 47 =	
$4 \times 5 + 33 =$	8 x 1 + 31 =	
$6 \times 3 + 52 =$	7 x 5 + 20 =	
4 x 3 + 23 =	$2 \times 6 + 45 =$	4 x 9 + 12 =
$2 \times 6 + 24 =$	7 x 6 + 51 =	6 x 7 + 17 =
$3 \times 3 + 35 =$	$3 \times 9 + 50 =$	4 x 7 + 55 =
6 x 7 + 33 =	2 x 7 + 52 =	7 x 2 + 33 =
$5 \times 5 + 50 =$	8 x 3 + 47 =	9 x 3 + 62 =
$5 \times 4 + 34 =$	$3 \times 7 + 52 =$	$2 \times 8 + 58 =$
$3 \times 7 + 57 =$	8 x 8 + 17 =	3 x 7 + 27 =
$6 \times 4 + 38 =$	$9 \times 9 + 18 =$	$6 \times 2 + 44 =$

Division and Multiplication

Cal	cu	late

- $56 \div 8 \ x \ 2 = 24 \div 4 \ x \ 9 =$
- $32 \div 8 \times 3 = 45 \div 5 \times 2 =$
- $40 \div 5 x 4 = 28 \div 7 x 6 =$
- $45 \div 9 \ x \ 3 = 16 \div 4 \ x \ 3 = 27 \div 3 \ x \ 4 =$
- $32 \div 8 \times 8 = 21 \div 3 \times 5 = 14 \div 7 \times 3 =$
- $30 \div 5 \times 3 =$ $18 \div 9 \times 7 =$ $15 \div 3 \times 7 =$
- $28 \div 7 \times 8 = 56 \div 8 \times 4 = 32 \div 4 \times 6 =$
- $48 \div 8 \times 3 =$ $42 \div 6 \times 5 =$ $40 \div 8 \times 3 =$
- $63 \div 9 \times 2 =$ $49 \div 7 \times 7 =$ $45 \div 5 \times 7 =$
- $12 \div 3 \times 7 = 48 \div 8 \times 5 = 56 \div 7 \times 2 =$
- $35 \div 5 \times 3 =$ $36 \div 4 \times 2 =$ $54 \div 9 \times 3 =$

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Multiplying 3 digits by 1 digit

Multiply































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Multiplying 4 digits by 1 digit

Multiply and use the boxes































Complete the table

	Round of the nearest:								
Number	Ten	Hundred	Thousand						
555									
1,298									
45									
5,876									
4,009									
851									
3,288									
904									
6									
884									
5,546									
4,541									
3,499									
48									
4,345									

Mixed multiplication and subtraction

Calculate

- $9 \times 88 345 = 3 \times 56 105 =$
- $6 \times 33 115 = 7 \times 51 109 =$
- 3 x 65 123 = 9 x 22 154 =
- 4 x 37 107 = 8 x 59 232 = 6 x 9
- $9 \times 16 132 =$ $9 \times 40 200 =$ $8 \times 65 229 =$
- 8 x 42 171 = 8 x 53 327 = 9 x 75 134 =
- $5 \times 75 226 =$ $9 \times 47 275 =$ $5 \times 52 116 =$
- 9 x 30 232 = 9 x 41 335 = 4 x 88 265 =
- $7 \times 70 156 =$ $5 \times 54 143 =$ $8 \times 45 123 =$
- 8 x 73 265 = 9 x 66 222 = 6 x 44 105 =
- $7 \times 66 312 =$ $7 \times 32 180 =$ $9 \times 25 100 =$
- 9 x 34 209 = 9 x 91 654 = 8 x 39 177 =



7 x 72 - 328 =

6 x 96 - 432 =

Mixed division and multiplication

Calculate

130 -	÷5 x	9 =	165 ÷ 3 x	9 =	
148 -	÷4 x	6 =	328 ÷ 8 x	4 =	
455 -	÷7 x	5 =	588 ÷ 6 x	3 =	
396 -	÷6 x	3 =	$100 \div 4 x$	5 =	$480 \div 5 x 4 =$
186 -	÷ 3 x	9 =	196 ÷ 2 x	7 =	$154 \div 2 \times 8 =$
336 -	÷8 x	7 =	200 ÷ 8 x	4 =	141 ÷ 3 x 9 =
140 -	÷4 x	7 =	585 ÷ 9 x	5 =	$510 \div 6 \ge 5 =$
252 -	÷7 x	3 =	425 ÷ 5 x	9 =	483 ÷ 7 x 9 =
392 -	÷4 x	7 =	318 ÷ 6 x	8 =	288 ÷ 4 x 7 =
261 -	÷ 3 x	8 =	435 ÷ 5 x	7 =	435 ÷ 5 x 4 =
345 -	÷ 5 x	4 =	134 ÷ 2 x	9 =	147 ÷ 7 x 6 =
264 -	÷ 3 x	7 =	465 ÷ 5 x	6 =	144 ÷ 3 x 8 =

Comparing Fractions

Compare the following fractions by using >, < or =.



Simplifying Fractions

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Simplify the following fractions (lowest terms)

$\frac{3}{6} =$	$\frac{4}{10} =$	$\frac{2}{6} =$	
$\frac{6}{8} =$	$\frac{6}{9} =$	$\frac{4}{14} =$	
$\frac{4}{12} =$	$\frac{6}{10} =$	$\frac{3}{9} =$	$\frac{4}{7} =$
$\frac{4}{8} =$	$\frac{8}{12} =$	$\frac{6}{12} =$	$\frac{20}{40} =$
$\frac{2}{10} =$	$\frac{6}{15} =$	$\frac{4}{20} =$	$\frac{12}{15} =$
$\frac{6}{18} =$	$\frac{6}{14} =$	$\frac{5}{15} =$	$\frac{16}{24} =$
$\frac{8}{16} =$	$\frac{4}{22} =$	$\frac{15}{18} =$	$\frac{8}{14} =$
$\frac{20}{30} =$	$\frac{3}{21} =$	$\frac{8}{20} =$	$\frac{8}{24} =$
$\frac{3}{30} =$	$\frac{6}{20} =$	$\frac{2}{28} =$	$\frac{7}{9} =$

$$\frac{1}{6} + \frac{1}{6} = \frac{2}{3} + \frac{1}{9} = \frac{1}{5} + \frac{1}{5} = \frac{1}{5} + \frac{1}{5} = \frac{1}{5} + \frac{1}{10} = \frac{1}{5} + \frac{1}{10} = \frac{1}{5} + \frac{1}{10} = \frac{1}{5} + \frac{1}{10} = \frac{1}{5} + \frac{1}{6} = \frac{1}{5} + \frac{1}{6} = \frac{1}{5} + \frac{4}{12} = \frac{1}{4} + \frac{4}{8} = \frac{1}{2} + \frac{1}{6} = \frac{1}{4} + \frac{5}{20} = \frac{3}{5} + \frac{2}{10} = \frac{1}{3} + \frac{1}{9} = \frac{1}{2} + \frac{2}{8} = \frac{3}{6} + \frac{1}{6} = \frac{3}{6} + \frac{1}{12} = \frac{3}{8} + \frac{3}{8} = \frac{2}{8} + \frac{2}{4} = \frac{1}{4} + \frac{1}{2} = \frac{1}{4} + \frac{1}{2} = \frac{1}{8} + \frac{3}{8} = \frac{2}{20} + \frac{4}{10} = \frac{4}{6} + \frac{0}{6} = \frac{1}{6} + \frac{1}{3} = \frac{3}{12} + \frac{1}{4} = \frac{5}{8} + \frac{1}{8} = \frac{1}{5} + \frac{3}{10} = \frac{1}{5} + \frac{1}{5} +$$

$$\frac{5}{8} \cdot \frac{1}{2} = \frac{4}{3} \cdot \frac{6}{6} =$$

$$\frac{6}{6} \cdot \frac{1}{3} = \frac{4}{6} \cdot \frac{1}{2} =$$

$$\frac{3}{3} \cdot \frac{1}{6} = \frac{4}{8} \cdot \frac{1}{4} =$$

$$\frac{2}{4} \cdot \frac{2}{8} = \frac{3}{4} \cdot \frac{1}{8} = \frac{9}{6} \cdot \frac{2}{3} =$$

$$\frac{1}{2} \cdot \frac{1}{6} = \frac{1}{4} \cdot \frac{1}{8} = \frac{1}{3} \cdot \frac{1}{6} =$$

$$\frac{4}{5} \cdot \frac{1}{10} = \frac{5}{6} \cdot \frac{1}{6} = \frac{1}{2} \cdot \frac{1}{8} =$$

$$\frac{3}{5} \cdot \frac{4}{10} = \frac{6}{9} \cdot \frac{1}{3} = \frac{3}{6} \cdot \frac{1}{3} =$$

$$\frac{3}{3} \cdot \frac{2}{6} = \frac{4}{3} \cdot \frac{4}{6} = \frac{5}{6} \cdot \frac{1}{6} =$$

$$\frac{4}{6} \cdot \frac{1}{3} = \frac{5}{8} \cdot \frac{2}{4} = \frac{3}{4} \cdot \frac{1}{2} =$$

$$\frac{2}{3} \cdot \frac{1}{6} = \frac{1}{2} \cdot \frac{1}{4} = \frac{4}{5} \cdot \frac{2}{10} =$$

Convert these mixed numbers into improper fractions.



Convert these improper fractions into mixed numbers.

$$\frac{14}{5} = \frac{13}{4} = \frac{6}{5} =$$

$$\frac{42}{7} = \frac{22}{5} = \frac{14}{6} =$$

$$\frac{14}{6} =$$

$$\frac{22}{4} = \frac{31}{5} = \frac{10}{8} = \frac{14}{6} =$$

$$\frac{15}{7} = \frac{14}{4} = \frac{28}{5} = \frac{29}{7} =$$

$$\frac{11}{8} = \frac{14}{6} = \frac{23}{7} = \frac{12}{2} =$$

$$\frac{5}{2} = \frac{22}{4} = \frac{19}{6} = \frac{11}{9} =$$

$$\frac{38}{4} = \frac{16}{2} = \frac{21}{4} = \frac{18}{4} =$$

$$\frac{10}{4} = \frac{7}{5} = \frac{8}{7} = \frac{21}{2} =$$

$$\frac{32}{6} = \frac{5}{3} = \frac{3}{2} = \frac{22}{6} =$$

Multiplication of 3 digits by 2 digits

Calculate and sl	now your workings!		
234	245	354	
<u>x 15</u>	<u>x 12</u>	<u>x 17</u>	
250	340	186	671
<u>x 31</u>	<u>x 14</u>	<u>x 35</u>	<u>x 11</u>
144	125	230	350
<u>x 27</u>	<u>x 15</u>	<u>x 24</u>	<u>x 18</u>
150	175	200	180
<u>x 29</u>	<u>x 24</u>	<u>x 18</u>	<u>x 48</u>
300	400	210	160
<u>x 20</u>	<u>x 20</u>	<u>x 22</u>	<u>x 22</u>

Multiplying decimal numbers

Multiply.

3.8	Х	8.2	=	7.2	Х	1.2	=

- $5.2 \times 3.8 = 7.5 \times 3.9 =$
- $8.2 \times 3.2 = 2.7 \times 1.3 = 5.6 \times 4.3 =$
- $2.3 \times 1.2 = 5 \times 3.4 = 9.9 \times 4.5 =$
- $9.9 \times 2.1 = 2.4 \times 2.6 = 5 \times 4.9 =$
- $7.2 \times 2.7 = 9.1 \times 4.1 = 8.8 \times 5.1 =$
- $9.9 \times 8.9 = 7.5 \times 2.4 = 4.2 \times 2.2 =$
- $5.8 \times 1.2 = 3.9 \times 1.2 = 7.1 \times 2.9 =$

 $0.7 \times 0.2 = 3.1 \times 1.2 = 9.8 \times 4.3 =$

Dividing decimal numbers

Divide.

3.6	<u>.</u>	9	=	2.8	• •	2	=		5		5
2.72	•	8	=	8.5	÷	5	=				0000
9.6	•	3	=	5.6	•	5	=	7.2	÷ 8	3 =	
2.36	•	2	=	2.97	÷	9	=	8.2	÷ 2	2 =	
5	••	4	=	9.9	÷	3	=	8.0	5 ÷ 7	7 =	
2.1	<u>•</u>	7	=	6.96	÷	6	=	9.6	÷ 8	3 =	
9.56	•	2	=	1.62	•	9	=	7.2	÷ (5 =	
2.5	•	5	=	6.4	÷	4	=	8.1	÷	3 =	
3.8	÷	5	=	3.2	•	8	=	6	÷ 4	↓ =	

$\frac{1}{6} + \frac{1}{4} =$	$\frac{1}{3} + \frac{1}{2} =$	
$\frac{2}{4} + \frac{1}{3} =$	$\frac{1}{5} + \frac{1}{6} =$	
$\frac{1}{6} + \frac{1}{10} =$	$\frac{1}{3} + \frac{2}{10} =$	
$\frac{2}{3} + \frac{1}{5} =$	$\frac{1}{2} + \frac{1}{9} =$	$\frac{1}{3} + \frac{4}{10} =$
$\frac{1}{3} + \frac{4}{8} =$	$\frac{1}{2} + \frac{1}{5} =$	$\frac{1}{4} + \frac{5}{10} =$
$\frac{3}{6} + \frac{2}{10} =$	$\frac{1}{3} + \frac{1}{8} =$	$\frac{1}{2} + \frac{2}{7} =$
$\frac{3}{5} + \frac{1}{6} =$	$\frac{3}{6} + \frac{1}{15} =$	$\frac{3}{8} + \frac{3}{6} =$
$\frac{2}{7} + \frac{2}{4} =$	$\frac{1}{4} + \frac{2}{3} =$	$\frac{1}{8} + \frac{3}{7} =$
$\frac{2}{10} + \frac{4}{15} =$	$\frac{4}{7} + \frac{0}{9} =$	$\frac{1}{6} + \frac{1}{9} =$
$\frac{3}{10} + \frac{1}{4} =$	$\frac{5}{6} + \frac{1}{8} =$	$\frac{1}{5} + \frac{3}{20} =$

$\frac{2}{4} - \frac{1}{6} =$	$\frac{1}{2} - \frac{1}{4} =$	
$\frac{3}{4} - \frac{1}{3} =$	$\frac{2}{5} - \frac{1}{6} =$	
$\frac{2}{6} - \frac{1}{10} =$	$\frac{2}{3} - \frac{2}{10} =$	
$\frac{1}{3} - \frac{1}{5} =$	$\frac{1}{2} - \frac{1}{8} =$	$\frac{1}{3} - \frac{1}{10} =$
$\frac{2}{3} - \frac{1}{8} =$	$\frac{1}{2} - \frac{1}{3} =$	$\frac{3}{4} - \frac{1}{10} =$
$\frac{2}{6} - \frac{2}{10} =$	$\frac{1}{3} - \frac{1}{7} =$	$\frac{1}{2} - \frac{1}{7} =$
$\frac{2}{5} - \frac{1}{6} =$	$\frac{4}{6} - \frac{1}{15} =$	$\frac{5}{8} - \frac{2}{6} =$
$\frac{2}{7} - \frac{1}{4} =$	$\frac{2}{4} - \frac{2}{8} =$	$\frac{4}{7} - \frac{3}{8} =$
$\frac{5}{10}$ - $\frac{4}{15}$ =	$\frac{6}{9} - \frac{0}{9} =$	$\frac{2}{6} - \frac{1}{9} =$
$\frac{4}{10} - \frac{1}{4} =$	$\frac{4}{6} - \frac{1}{8} =$	$\frac{2}{5} - \frac{3}{20} =$

Addition of Mixed Numbers

- $2\frac{1}{2} + 1\frac{3}{5} = 3\frac{3}{4} + 2\frac{1}{7} =$
- $1\frac{3}{4} + 1\frac{4}{6} = \frac{4\frac{4}{5} + 1\frac{1}{3}}{4\frac{1}{5}} = \frac{4\frac{4}{5}}{1\frac{1}{3}} = \frac{4\frac{4}{5}}{1\frac{1}{3}} = \frac{1}{1\frac{1}{3}}$
- $5\frac{3}{7} + 1\frac{1}{6} = 1\frac{1}{8} + 1\frac{2}{9} =$
- $3\frac{1}{8} + 1\frac{2}{6} = 5\frac{1}{9} + 1\frac{1}{6} =$
- $3\frac{2}{4} + 2\frac{6}{9} =$
- $3\frac{4}{5} + 2\frac{1}{6} = \qquad \qquad 3\frac{1}{4} + 1\frac{5}{6} = \qquad \qquad 2\frac{1}{4} + 6\frac{5}{6} =$
- $4\frac{2}{4} + 1\frac{1}{6} = 1\frac{3}{4} + 4\frac{2}{6} = 7\frac{1}{4} + 1\frac{6}{7} =$
- $4\frac{2}{3} + 1\frac{1}{2} = 4\frac{1}{3} + 4\frac{5}{6} = 2\frac{7}{8} + 4\frac{1}{6} =$
- $2\frac{1}{3} + 3\frac{3}{4} = 3\frac{2}{4} + 2\frac{5}{6} = 3\frac{1}{5} + 2\frac{1}{2} =$
- $2\frac{1}{2} + 2\frac{4}{6} = 1\frac{1}{8} + 1\frac{8}{9} = 5\frac{3}{4} + 1\frac{2}{6} =$

Multiplying Fractions

Multiply and express your answers in mixed numbers

$\frac{1}{3}$	Х	5	=		24	Х	7	=					
$\frac{2}{3}$	х	5	=		<u>2</u> 6	Х	7	=					
$\frac{1}{5}$	х	9	=		$\frac{1}{6}$	х	7	_		$\frac{1}{2}$	х	8	=
$\frac{2}{3}$	х	4	=		1/4	х	6	=		$\frac{1}{3}$	х	7	=
<u>5</u> 3	х	4	=		$\frac{1}{2}$	х	7	=		$\frac{2}{3}$	х	5	=
$\frac{2}{3}$	х	10	=		$\frac{1}{6}$	х	9	=		$\frac{5}{3}$	х	3	=
$\frac{1}{5}$	х	8	=		$\frac{1}{6}$	х	9	=		38	х	4	=
<u>2</u> 7	х	5	=		$\frac{2}{6}$	х	9	=		$\frac{1}{6}$	х	24	=
<u>1</u> 4	Х	31	=		47	х	4	=		$\frac{3}{5}$	х	4	=

Multiplying Fractions

Multiply and express your answers in the lowest terms

$\frac{1}{3}$ x	$\frac{1}{3} =$	$\frac{1}{2}$ x $\frac{1}{3}$ =	
$\frac{2}{4}$ x	$\frac{2}{4} =$	$\frac{2}{9} \times \frac{3}{7} =$	
$\frac{3}{7}$ x	$\frac{1}{6} =$	$\frac{1}{7}$ x $\frac{6}{7}$ =	
$\frac{1}{2}$ x	$\frac{1}{2} =$	$\frac{1}{5}$ x $\frac{4}{6}$ =	$\frac{2}{7}$ x $\frac{2}{7}$ =
$\frac{1}{5}$ x	$\frac{4}{2} =$	$\frac{4}{3}$ x $\frac{2}{3}$ =	$\frac{4}{3}$ x $\frac{1}{3}$ =
$\frac{2}{3}$ x	$\frac{2}{3} =$	$\frac{1}{3}$ x $\frac{2}{6}$ =	$\frac{1}{3}$ x $\frac{2}{8}$ =
$\frac{1}{3}$ x	$\frac{5}{6} =$	$\frac{1}{7}$ x $\frac{3}{5}$ =	$\frac{3}{5}$ x $\frac{3}{4}$ =
$\frac{2}{7}$ x	$\frac{5}{7} =$	$\frac{5}{6}$ x $\frac{2}{3}$ =	$\frac{2}{6}$ x $\frac{2}{3}$ =
$\frac{1}{4}$ x	$\frac{3}{5} =$	$\frac{2}{3}$ x $\frac{1}{3}$ =	$\frac{1}{4}$ x $\frac{6}{8}$ =

Dividing Fractions

Divide and express your answers in mixed numbers and the lowest terms

$$\frac{1}{3} \div \frac{1}{4} = \frac{1}{2} \div \frac{1}{3} = \frac{2}{9} \div \frac{3}{7} = \frac{2}{9} \div \frac{1}{9} = \frac{2}{7} \div \frac{1}{6} = \frac{6}{7} \div \frac{1}{4} = \frac{5}{7} \div \frac{1}{9} = \frac{1}{5} \div \frac{1}{6} = \frac{5}{7} \div \frac{1}{9} = \frac{4}{5} \div \frac{1}{3} = \frac{1}{2} \div \frac{1}{9} = \frac{2}{7} \div \frac{2}{8} = \frac{1}{3} \div \frac{1}{7} = \frac{1}{3} \div \frac{1}{7} = \frac{1}{3} \div \frac{1}{8} = \frac{2}{3} \div \frac{2}{5} = \frac{5}{7} \div \frac{1}{5} = \frac{3}{5} \div \frac{1}{4} = \frac{5}{7} \div \frac{2}{7} = \frac{2}{6} \div \frac{2}{3} = \frac{2}{6} \div \frac{1}{8} = \frac{2}{6} \div \frac{1}{3} = \frac{2}{6} \div \frac{1}{8} = \frac{3}{4} \div \frac{3}{5} - \frac{2}{3} \div \frac{1}{7} - \frac{1}{4} \div \frac{1}{9} - \frac{1}{4} \div \frac{1}{9} = \frac{1}{2} \div \frac{1}{9} = \frac{1}{9} \div \frac{1}{9} = \frac{1}{9} \div \frac{1}{9} = \frac{1}{9} \div \frac{1}{9} \div \frac{1}{9} = \frac{1}{9} \div \frac{1}{9} \div \frac{1}{9} \div \frac{1}{9} = \frac{1}{9} \div \frac{1}$$

Percentage of numbers

Calculate the following percentages

75% of 150 =	30% of 180 =	
25% of 170 =	20% of 160 =	
15% of 150 =	50% of 145 =	
45% of 200 =	10% of 198 =	60% of 450 =
40% of 325 =	60% of 400 =	73% of 250 =
25% of 190 =	65% of 150 =	50% of 153 =
50% of 110 =	95% of 160 =	75% of 500 =
65% of 320 =	35% of 170 =	88% of 150 =
40% of 100 =	33% of 150 =	75% of 270 =
90% of 250 =	47% of 250 =	23% of 200 =

Dividing Mixed Numbers

Divide and express your answers in mixed numbers if possible

21⁄2	•••	1⅓	=	41⁄3 -	•	21⁄7	=			
1¾	•••	1⅓	=	1% -	•	3½	=	Ą	+++	Ŧ
2 ¹ ⁄3	÷	1	=	1 3/8 -	•	2¼	=			
3⅓	÷	14⁄5	=	2¼ -	•	11⁄5	=	21⁄7	÷ 7½	=
21⁄7	<u>.</u>	2¾	=	1 3/5 -	•	1 3⁄8	=	7½	÷ 3¾	=
11⁄5	• •	1%	=	1½ -	•	1%	=	11⁄6	÷ 1%	=
4¼	<u>.</u>	3½	=	4½ -	•	1 3⁄4	=	5½	÷ 1⅓	=
1¾	•	2½	=	8½ -	•	1 ² / ₃	=	41⁄8	÷ 2¼	=
1%	•	1⅓	=	6½ -	•	1 1⁄8	=	31⁄3	÷ 2¼	=
7½	•	6½	=	4½ -	•	21⁄6	=	41⁄2	÷ 9¼	=

Greatest Common Factors

Find the greatest common factors of the following sets of numbers.

12 and 20=	13 and 65=	
35 and 18=	12 and 21=	$\langle \cdot \cdot \rangle$
24 and 96=	15 and 75=	
12 and 56=	14 and 77=	11 and 78=
12 and 28=	17 and 68=	18 and 28=
19 and 95=	12 and 23=	14 and 84=
12 and 66=	19 and 48=	17 and 68=
14 and 87=	12 and 26=	30 and 45 =
21 and 33=	15 and 95=	15 and 90=
16 and 64=	12 and 30=	24 and 30=

Percents

Calculate the percents of each number (round off to nearest tenth)

14	is	12 %	of			Y			
25	is	3 %	of			Ø	0	$\langle \rangle$	
35	is	15 %	of					N	
20	is	17 %	of	 25	is	22 %	of		
18	is	28 %	of	 90	is	15 %	of		
15	is	35 %	of	 16	is	64 %	of		
21	is	20 %	of	 13	is	60 %	of		
45	is	12 %	of	 36	is	40 %	of		
88	is	15 %	of	 82	is	25 %	of		
75	is	25 %	of	 67	is	23 %	of		
22	is	30 %	of	 72	is	12 %	of		
98	is	50 %	of	 12	is	16 %	of		
32	is	34 %	of	 18	is	80 %	of		
24	is	12 %	of	 26	is	45 %	of		

Exponents

Calculate

$$2^2 = 4^4 =$$

- $2^{3} = 5^{2} =$
- $3^2 = 6^2 =$

- AR AR
- $3^6 = 1^2 =$
- $2^4 = 3^3 = 9^0 = 3^0 =$
- $2^5 = 4^3 = 8^2 = 1^3 =$
- $4^2 = 3^1 = 6^2 = 7^2 =$
- $2^{0} = 7^{0} = 5^{2} = 2^{9} =$
- $5^3 = 4^1 = 9^2 = 7^3 =$
- $7^{1} = 6^{1} = 2^{8} = 8^{0} =$
- $2^6 = 3^5 = 9^3 = 1^5 =$
- $4^{0} = 2^{7} = 8^{3} = 5^{4} =$

Square roots

Calculate the square roots of the following numbers

$\sqrt{9} =$	$\sqrt{100} =$	
$\sqrt{25} =$	$\sqrt{625} =$	
$\sqrt{441} =$	√ <u>4</u> =	$\sqrt{289} =$
$\sqrt{196} =$	$\sqrt{64} =$	$\sqrt{361} =$
$\sqrt{16} =$	$\sqrt{576} =$	$\sqrt{324} =$
$\sqrt{225} =$	$\sqrt{81} =$	$\sqrt{256} =$
$\sqrt{121} =$	$\sqrt{144} =$	$\sqrt{49} =$
$\sqrt{1} =$	$\sqrt{36} =$	$\sqrt{169} =$
$\sqrt{400} =$	$\sqrt{529} =$	$\sqrt{484} =$



Between which 2 whole numbers are the following square roots?



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Calculations with 3 Integers

Calculate

-12 x 4	x -12 =	
15 + -4	x -10 =	
12 + 7	x -12 =	-12 x 2 x -11 =
-20 x -4	x -12 =	-25 x 4 + -12 =
-72 x -2	+ -52 =	-12 + 412 =
-20 x -5	x 9 =	-16 x 2 x -10 =
-15 x 3	12 =	11 x 2 + -12 =
12 - 4	x 19 =	-14 + 4 + -12 =
-19 x -3	99 =	-12 x 5 x -12 =
-15 + 4	x -12 =	12 + -6 x -24 =
-14 - 9	x -12 =	-12 x 3 x -16 =
20 + 8	x -10 =	-15 x -3 + 99 =