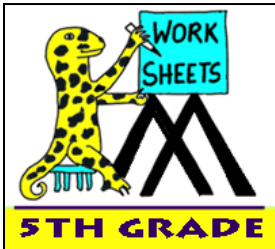


MATH SALAMANDERS

5TH GRADE MATH GRAB PACK

SUMMER EDITION

ANSWERS



- This is the **answer pack** for our 5th Grade Math Grab Pack Summer Edition.
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PLACE VALUE TO 1 MILLION SHEET 2 ANSWERS

1) Write the place value of the underlined digit under each of the numbers.

8 <u>2</u> ,163	<u>4</u> 6,375	327,1 <u>8</u> 6	4 <u>1</u> 2,846	84,7 <u>1</u> 6
<u>2,000</u>	<u>40,000</u>	<u>80</u>	<u>10,000</u>	<u>700</u>

76 <u>1</u> ,489	<u>4</u> 12,685	4 <u>9</u> ,321	3 <u>8</u> 5,029	<u>6</u> 37,958
<u>1,000</u>	<u>400,000</u>	<u>9,000</u>	<u>80,000</u>	<u>600,000</u>

2) Write these numbers in expanded form.

$$84,136 = 80,000 + 4,000 + 100 + 30 + 6$$

$$137,295 = \underline{100,000 + 30,000 + 7,000 + 200 + 90 + 5}$$

$$67,329 = \underline{60,000 + 7,000 + 300 + 20 + 9}$$

$$894,326 = \underline{800,000 + 90,000 + 4,000 + 300 + 20 + 6}$$

3) Write these numbers in standard form.

$$20,000 + 7,000 + 800 + 20 + 4 = 27,824$$

$$80,000 + 4,000 + 900 + 10 + 6 = \underline{84,916}$$

$$200,000 + 90,000 + 5,000 + 200 + 30 + 8 = \underline{295,238}$$

$$800,000 + 7,000 + 300 + 50 + 6 = \underline{807,356}$$

$$500,000 + 30,000 + 800 + 40 + 2 = \underline{530,842}$$

4) Fill in the missing parts in these numbers

$$45,372 = \underline{45} \text{ thousands} \quad \underline{3} \text{ hundreds} \quad \underline{7} \text{ tens} \quad \underline{2} \text{ ones}$$

$$176,437 = \underline{176} \text{ thousands} \quad \underline{4} \text{ hundreds} \quad \underline{3} \text{ tens} \quad \underline{7} \text{ ones}$$

$$962,508 = \underline{962} \text{ thousands} \quad \underline{5} \text{ hundreds} \quad \underline{0} \text{ tens} \quad \underline{8} \text{ ones}$$

DECIMAL PLACE VALUE RIDDLES 5A ANSWERS

1) I am greater than 0.4.

If you multiply me by 100, you get a whole number.

I am less than 13 tenths.

If you round me to the nearest whole, then I round up.

Who am I?

0.27	1.742	0.9	0.461
0.44	1.32	0.593	1.06

2) My nearest whole number is 1.

If you multiply me by 10, I am not a whole number.

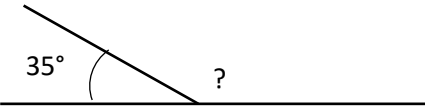


My hundredths digit is even.

I am greater than 11 tenths.

Who am I?

0.82	1.27	0.7	0.46
1.18	0.63	0.59	1.57

MENTAL MATH QUIZ 5:5 ANSWERS

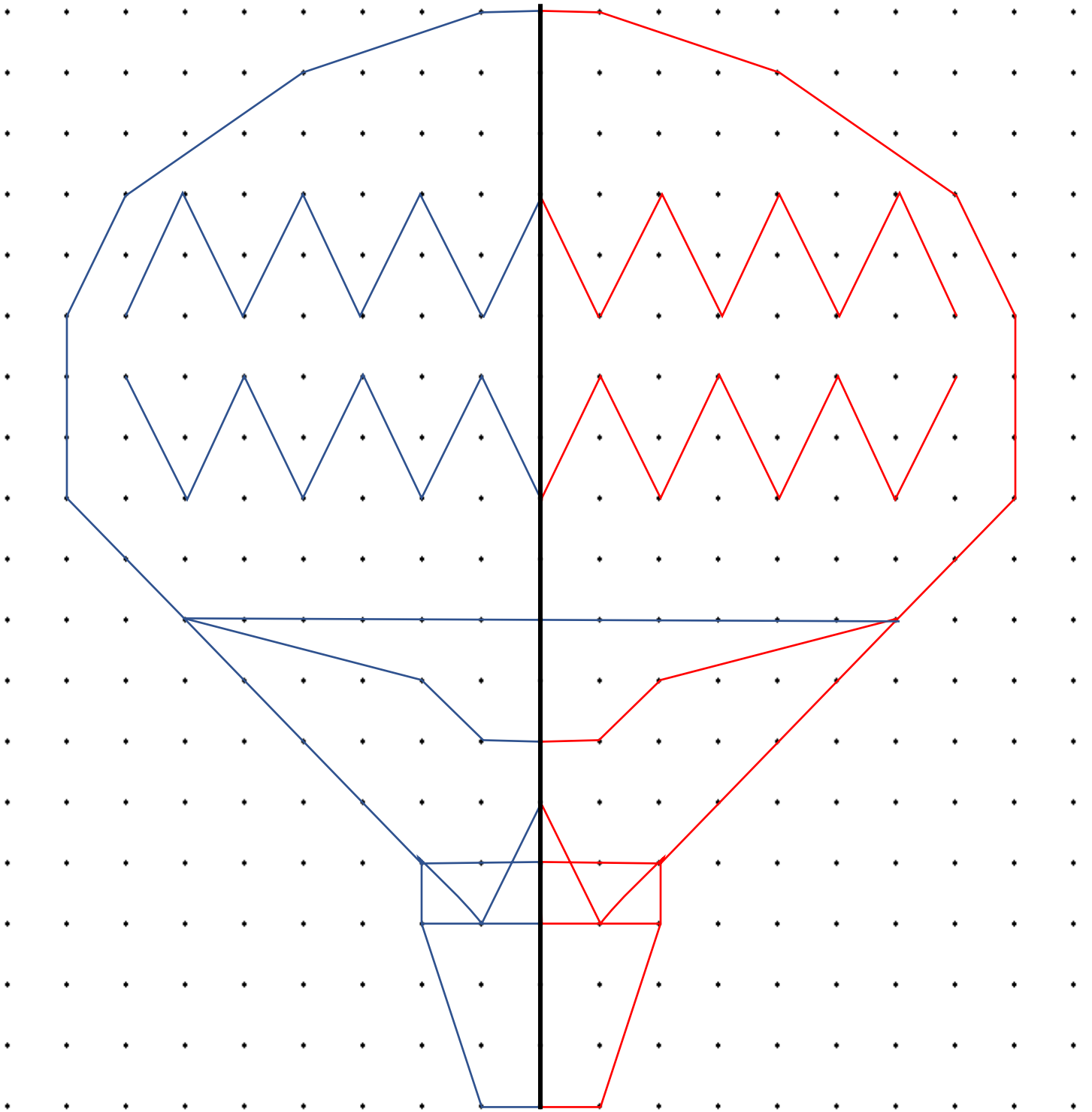
1)	$0.35 + 0.6 + \underline{\quad} = 1$	0.05
2)	$\frac{3}{4}$ of 24	18
3)	Which of these numbers is not a multiple of 4? 36 62 28 52 72 88	62
4)	What is $8 \times 100 + 7 \times 1 + 3 \times (1/10) + 9 \times (1/100)$?	807.39
5)	Add up all the odd numbers between 20 and 26.	21+23+25=69
6)	27 is ten times bigger than what number?	2.7
7)	The perimeter of a rectangle is 12 feet. The area is 5 square feet. What is the length of the sides?	1 ft and 5 ft
8)	Write down all the prime numbers between 30 and 40.	31, 37
9)	What is the missing angle? 	145°
10)	A miniature scale model of a motorbike is made with all the measurements 40 times smaller. The length on the scale model is 6 cm. How long is the actual motorbike?	240 cm
11)	$1625 \div 100$	16.25
12)	Sally sells 30 raffle tickets and makes \$18. How much did she sell each ticket for?	60¢
13)	$52.76 = 52 + 0.7 + \underline{\quad}$	0.06
14)	Convert $1\frac{7}{6}$ to a mixed number.	2 $\frac{5}{6}$
15)	Write 'a' on each acute angle. How many are there? 	2 acute angles
16)	The time is 7:25pm. What is the 24-hour clock time?	19:25
17)	$\frac{1}{5} + \frac{1}{4}$	$\frac{9}{20}$
18)	A husky runs for $5\frac{1}{4}$ miles then has a drink and runs for another $3\frac{5}{8}$ miles. How far has it run in total? 	$8\frac{7}{8}$ miles

COMPARING FRACTIONS SHEET 2 ANSWERS

1)	$\frac{3}{4}$	>	$\frac{1}{2}$
2)	$\frac{2}{3}$	>	$\frac{1}{4}$
3)	$\frac{5}{8}$	<	$\frac{5}{6}$
4)	$\frac{4}{8}$	=	$\frac{2}{4}$
5)	$\frac{1}{6}$	<	$\frac{1}{5}$
6)	$\frac{3}{5}$	>	$\frac{1}{2}$
7)	$\frac{1}{4}$	=	$\frac{2}{8}$
8)	$\frac{3}{7}$	>	$\frac{3}{8}$
9)	$\frac{2}{5}$	<	$\frac{1}{2}$
10)	$\frac{2}{3}$	<	$\frac{5}{6}$
11)	$\frac{1}{2}$	>	$\frac{3}{10}$
12)	$\frac{1}{4}$	=	$\frac{3}{12}$

13)	$\frac{3}{5}$	>	$\frac{3}{7}$
14)	$\frac{1}{3}$	=	$\frac{2}{6}$
15)	$\frac{5}{9}$	<	$\frac{5}{8}$
16)	$\frac{7}{10}$	<	$\frac{9}{10}$
17)	$\frac{2}{3}$	<	$\frac{5}{6}$
18)	$\frac{2}{3}$	>	$\frac{2}{5}$
19)	$\frac{5}{8}$	>	$\frac{1}{2}$
20)	$\frac{4}{10}$	=	$\frac{2}{5}$
21)	$\frac{3}{7}$	>	$\frac{3}{10}$
22)	$\frac{7}{10}$	<	$\frac{4}{5}$
23)	$\frac{6}{8}$	=	$\frac{3}{4}$
24)	$\frac{3}{10}$	>	$\frac{1}{5}$

1 LINE SYMMETRY BALLOON ANSWERS



DIVISION – 3 DIGITS BY 2 DIGITS SHEET 2 ANSWERS

$$1) \quad 32 \overline{) 526} \quad \begin{array}{r} 16 \\ \text{r } 14 \end{array}$$

$$2) \quad 47 \overline{) 179} \quad \begin{array}{r} 3 \\ \text{r } 38 \end{array}$$

$$3) \quad 15 \overline{) 756} \quad \begin{array}{r} 50 \\ \text{r } 6 \end{array}$$

$$4) \quad 42 \overline{) 551} \quad \begin{array}{r} 13 \\ \text{r } 5 \end{array}$$

$$5) \quad 65 \overline{) 388} \quad \begin{array}{r} 5 \\ \text{r } 63 \end{array}$$

$$6) \quad 72 \overline{) 985} \quad \begin{array}{r} 13 \\ \text{r } 49 \end{array}$$

$$7) \quad 18 \overline{) 794} \quad \begin{array}{r} 44 \\ \text{r } 2 \end{array}$$

$$8) \quad 26 \overline{) 671} \quad \begin{array}{r} 25 \\ \text{r } 21 \end{array}$$

$$9) \quad 38 \overline{) 299} \quad \begin{array}{r} 7 \\ \text{r } 33 \end{array}$$

$$10) \quad 41 \overline{) 798} \quad \begin{array}{r} 19 \\ \text{r } 19 \end{array}$$

$$11) \quad 17 \overline{) 683} \quad \begin{array}{r} 40 \\ \text{r } 3 \end{array}$$

$$12) \quad 56 \overline{) 421} \quad \begin{array}{r} 7 \\ \text{r } 29 \end{array}$$

TOTAL DIFFERENCE PUZZLE 5A ANSWERS

<p>$3.9 + 2.7 - 1.2 = 1.5$</p>	<p>$6.8 + 4.5 - 2.3 = 2.2$</p>	<p>$5.2 + 1.8 - 3.4 = 1.6$</p>
<p>$3.5 + 0.8 - 2.7 = 1.9$</p>	<p>$9.7 + 6.5 - 3.2 = 3.3$</p>	<p>$11.3 + 4.7 - 6.6 = 1.9$</p>
<p>$9.7 + 6.3 - 3.4 = 2.9$</p>	<p>$5.3 + 2.6 - 2.7 = 0.1$</p>	<p>$9.3 + 7.8 - 1.5 = 6.3$</p>

MULTIPLYING DECIMALS BY 10 AND 100 SHEET 1A ANSWERS

A) Multiply these numbers by 10.

- | | | |
|-------------------------------------|---------------------------------------|---------------------------------------|
| 1) $0.7 \times 10 = \underline{7}$ | 2) $2.2 \times 10 = \underline{22}$ | 3) $10 \times 16 = \underline{160}$ |
| 4) $1.9 \times 10 = \underline{19}$ | 5) $10 \times 13.5 = \underline{135}$ | 6) $0.9 \times 10 = \underline{9}$ |
| 7) $10 \times 28 = \underline{280}$ | 8) $25.7 \times 10 = \underline{257}$ | 9) $10 \times 46.8 = \underline{468}$ |

B) Multiply these numbers by 100.

- | | | |
|---------------------------------------|---|---|
| 1) $1.2 \times 100 = \underline{120}$ | 2) $0.6 \times 100 = \underline{60}$ | 3) $100 \times 1.8 = \underline{180}$ |
| 4) $100 \times 2.5 = \underline{250}$ | 5) $100 \times 3.2 = \underline{320}$ | 6) $14.3 \times 100 = \underline{1430}$ |
| 7) $63 \times 100 = \underline{6300}$ | 8) $100 \times 37.2 = \underline{3720}$ | 9) $100 \times 28.1 = \underline{2810}$ |

C) 10 or 100 times bigger? Circle the correct amount.

- | | |
|--|---|
| 1) 54 is <u>10x</u> 100x bigger than 5.4 | 2) 670 is 10x <u>100x</u> bigger than 6.7 |
| 3) 180 is 10x <u>100x</u> bigger than 1.8 | 4) 124 is <u>10x</u> 100x bigger than 12.4 |
| 5) 74 is <u>10x</u> 100x bigger than 7.4 | 6) 90 is 10x <u>100x</u> bigger than 0.9 |
| 7) 452 is <u>10x</u> 100x bigger than 45.2 | 8) 1370 is 10x <u>100x</u> bigger than 13.7 |

D) Multiply these numbers by 10 or 100.

- | | | |
|---------------------------------------|--|--|
| 1) $2.5 \times 10 = \underline{25}$ | 2) $100 \times 0.3 = \underline{30}$ | 3) $1.8 \times 100 = \underline{180}$ |
| 4) $10 \times 15.6 = \underline{156}$ | 5) $32.2 \times 100 = \underline{3220}$ | 6) $10 \times 16.4 = \underline{164}$ |
| 7) $4.5 \times 100 = \underline{450}$ | 8) $10 \times 64.8 = \underline{648}$ | 9) $0.7 \times 100 = \underline{70}$ |
| 10) $10 \times 2.9 = \underline{29}$ | 11) $18.3 \times 100 = \underline{1830}$ | 12) $32.5 \times 100 = \underline{3250}$ |

FIND THE MEDIAN SHEET 1 ANSWERS

Data	Order	Median
<i>Example</i> {16, 24, 8, 12, 19}	{8, 12, <u>16</u> , 19, 24}	16
1) {13, 5, 2, 10, 8}	{ <u>2</u> , 5, <u>8</u> , 10, 13}	<u>8</u>
2) {4, 1, 1, 6, 5}	{1, 1, <u>4</u> , 5, 6}	<u>4</u>
3) {15, 32, 53, 27, 11}	{11, 15, <u>27</u> , 32, 53}	<u>27</u>
4) {89, 38, 94}	{38, <u>89</u> , 94}	<u>89</u>
5) {75, 29, 12, 17, 15}	{12, 15, <u>17</u> , 29, 75}	<u>17</u>
6) {73, 91, 56, 24, 14, 17, 10}	{10, 14, 17, <u>24</u> , 56, 73, 91}	<u>24</u>
7) {67, 13, 121, 86, 55}	{13, 55, <u>67</u> , 86, 121}	<u>67</u>
8) {142, 173, 129, 156, 181}	{129, 142, <u>156</u> , 173, 181}	<u>156</u>
9) {257, 366, 305, 286, 182}	{182, 257, <u>286</u> , 305, 366}	<u>286</u>
10) {362, 326, 263}	{263, <u>326</u> , 362}	<u>326</u>
11) {82, 106, 91, 115, 78, 83, 102}	{78, 82, 83, <u>91</u> , 102, 106, 115}	<u>91</u>
12) {873, 783, 837, 387, 738}	{387, 738, <u>783</u> , 837, 873}	<u>783</u>
13) {428, 417, 472, 456, 409}	{409, 417, <u>428</u> , 456, 472}	<u>428</u>
14) {3, 19, 26, 3, 8, 37, 12, 5, 0}	{0, 3, 3, 5, <u>8</u> , 12, 19, 26, 37}	<u>8</u>
15) {819, 862, 851, 904, 786}	{786, 819, <u>851</u> , 862, 904}	<u>851</u>
16) {6, 5 ½, 5, 2 ½, 7, 3 ½, 4}	{2 ½, 3 ½, 4, <u>5</u> , 5 ½, 6, 7}	<u>5</u>

FACTORS AND MULTIPLES RIDDLES 1 ANSWERS

Use the clues to work out the correct number from the 8 possibilities.



CHALLENGE 1

- I am not a prime number.
- One of my factors is 3.
- I am even.
- I am not a multiple of 4.

Who am I? G) 6

A 10	B 12	C 20	D 15
E 17	F 25	G 6	H 3

CHALLENGE 2

- I am less than 5 squared.
- I am a factor of 30.
- I am a multiple of 5.
- I am odd.

Who am I? D) 15

COLUMN ADDITION DECIMALS SHEET 3 ANSWERS

$$\begin{array}{r} 1) \quad 1806.28 \\ + \quad 3594.07 \\ \hline 5400.35 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 8419.82 \\ + \quad 4077.46 \\ \hline 12497.28 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 7952.80 \\ + \quad 21076.39 \\ \hline 29029.19 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 3821.53 \\ + \quad 2846.09 \\ + \quad 727.34 \\ \hline 7394.96 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 3549.06 \\ + \quad 8975.46 \\ + \quad 2144.57 \\ \hline 14669.09 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 1098.73 \\ + \quad 648.25 \\ + \quad 7806.49 \\ \hline 9553.47 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 492.725 \\ + \quad 13.204 \\ + \quad 170.216 \\ \hline 676.145 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 904.672 \\ + \quad 165.075 \\ + \quad 58.326 \\ \hline 1128.073 \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 894.802 \\ + \quad 506.253 \\ + \quad 168.377 \\ \hline 1569.432 \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 7625.59 \\ + \quad 1032.41 \\ + \quad 678.35 \\ + \quad 130.63 \\ \hline 9466.98 \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad 3095.57 \\ + \quad 473.29 \\ + \quad 9255.68 \\ + \quad 1067.35 \\ \hline 13891.89 \\ \hline \end{array}$$

$$\begin{array}{r} 12) \quad 672.74 \\ + \quad 5208.49 \\ + \quad 4816.26 \\ + \quad 7201.81 \\ \hline 17899.30 \\ \hline \end{array}$$

$$\begin{array}{r} 13) \quad 675.38 \\ + \quad 1206.75 \\ + \quad 89.38 \\ + \quad 183.14 \\ \hline 2154.65 \\ \hline \end{array}$$

$$\begin{array}{r} 14) \quad 283.382 \\ + \quad 172.756 \\ + \quad 27.043 \\ + \quad 109.372 \\ \hline 592.553 \\ \hline \end{array}$$

$$\begin{array}{r} 15) \quad 8912.08 \\ + \quad 4386.29 \\ + \quad 728.56 \\ + \quad 170.38 \\ \hline 14197.31 \\ \hline \end{array}$$

THE FIVE PRIMES PROBLEM ANSWERS

Newton chose five different prime numbers. The largest of the prime numbers was 29.

He added them altogether.

The answer came to 50. Which primes did he add?



- *List of prime numbers to 29*

2	3	5	7	11	13	17	19	23	29
---	---	---	---	----	----	----	----	----	----

- **Answer**

2	3	5	11	29
---	---	---	----	----

Captain chose four different prime numbers. The largest of his prime numbers was also 29. He added them together and the answer came to 60.

Which primes did he add?

There are 3 possible answers. How many can you find?



- **Answer**

2	3	7	19	29
2	5	7	17	29
2	5	11	13	29

ADDING SUBTRACTING FRACTIONS SHEET 2 ANSWERS

$$1) \frac{1}{3} + \frac{1}{6} = \frac{3}{6} = \frac{1}{2}$$

$$2) \frac{6}{8} - \frac{1}{2} = \frac{2}{8} = \frac{1}{4}$$

$$3) \frac{1}{3} + \frac{2}{9} = \frac{5}{9}$$

$$4) \frac{1}{2} - \frac{1}{6} = \frac{2}{6} = \frac{1}{3}$$

$$5) \frac{7}{8} - \frac{1}{4} = \frac{5}{8}$$

$$6) \frac{2}{5} + \frac{3}{10} = \frac{7}{10}$$

$$7) \frac{3}{5} - \frac{1}{10} = \frac{5}{10} = \frac{1}{2}$$

$$8) \frac{1}{3} + \frac{5}{12} = \frac{9}{12} = \frac{3}{4}$$

$$9) \frac{7}{15} + \frac{1}{5} = \frac{10}{15} = \frac{2}{3}$$

$$10) \frac{9}{16} - \frac{1}{4} = \frac{5}{16}$$

$$11) \frac{1}{4} + \frac{7}{20} = \frac{12}{20} = \frac{3}{5}$$

$$12) \frac{13}{18} - \frac{1}{6} = \frac{10}{18} = \frac{5}{9}$$

$$13) \frac{11}{18} - \frac{3}{9} = \frac{5}{18} =$$

$$14) \frac{15}{32} + \frac{3}{8} = \frac{27}{32}$$

$$15) \frac{21}{24} - \frac{3}{4} = \frac{3}{24} = \frac{1}{8}$$

$$16) \frac{12}{25} + \frac{2}{5} = \frac{22}{25}$$

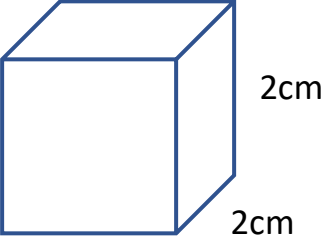
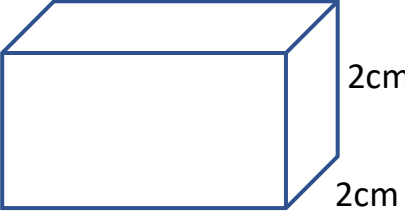


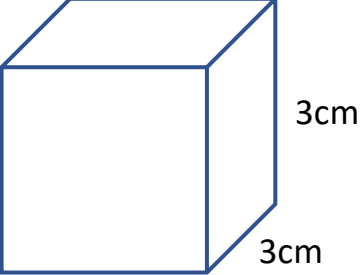
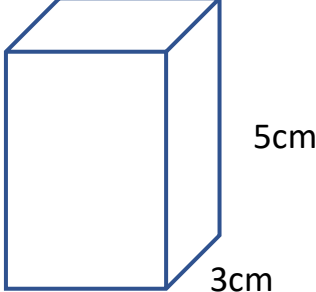
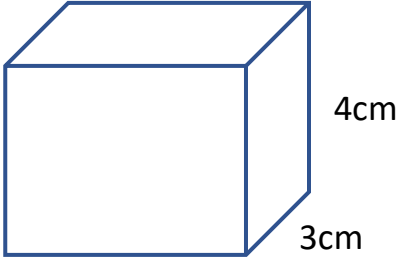
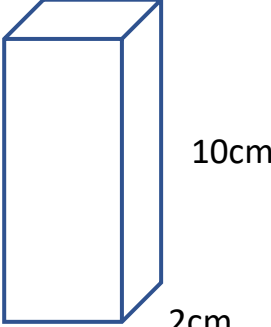
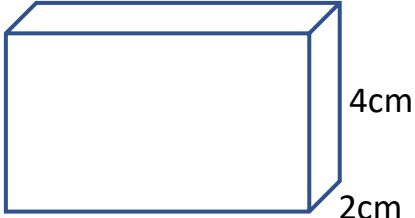
$$17) \frac{4}{7} + \frac{3}{14} = \frac{11}{14}$$

$$18) \frac{17}{18} - \frac{1}{2} = \frac{8}{18} = \frac{4}{9}$$

$$19) \frac{3}{8} - \frac{5}{24} = \frac{4}{24} = \frac{1}{6}$$

$$20) \frac{2}{3} + \frac{5}{24} = \frac{21}{24} = \frac{7}{8}$$

FIND THE VOLUME 2 (METRIC) ANSWERS

 <p>2cm 2cm 2cm</p>	 <p>6cm 2cm 2cm</p>	 <p>8cm 2cm 1cm</p>
<p>Volume = <u>$2 \times 2 \times 2 = 8 \text{ cm}^3$</u></p>	<p>Volume = <u>$6 \times 2 \times 2 = 24 \text{ cm}^3$</u></p>	<p>Volume = <u>$2 \times 1 \times 8 = 16 \text{ cm}^3$</u></p>
 <p>7cm 2cm 2cm</p>	 <p>3cm 3cm 3cm</p>	 <p>5cm 3cm 3cm</p>
<p>Volume = <u>$7 \times 2 \times 2 = 28 \text{ cm}^3$</u></p>	<p>Volume = <u>$3 \times 3 \times 3 = 27 \text{ cm}^3$</u></p>	<p>Volume = <u>$3 \times 3 \times 5 = 45 \text{ cm}^3$</u></p>
 <p>4cm 3cm 5cm</p>	 <p>10cm 2cm 2cm</p>	 <p>4cm 8cm 2cm</p>
<p>Volume = <u>$5 \times 3 \times 4 = 60 \text{ cm}^3$</u></p>	<p>Volume = <u>$2 \times 2 \times 10 = 40 \text{ cm}^3$</u></p>	<p>Volume = <u>$8 \times 2 \times 4 = 64 \text{ cm}^3$</u></p>

QUADRA'S OPERATION PUZZLE 5 ANSWERS

For some calculations, more than one answer may be valid.

$$(\boxed{12} \div \boxed{3}) \times (\boxed{5} - \boxed{2}) = \boxed{12}$$

$$(\boxed{7} - \boxed{4}) \times \boxed{5} - \boxed{6} = \boxed{9}$$

$$(\boxed{3} \times \boxed{6}) \div \boxed{2} - \boxed{4} = \boxed{5}$$

$$\boxed{2} = (\boxed{21} - \boxed{5}) \div (\boxed{2} \times \boxed{4})$$

$$\boxed{27} \div \boxed{3} = (\boxed{11} + \boxed{7}) \div \boxed{2}$$

$$\boxed{8} \times \boxed{4} - \boxed{12} = \boxed{10} \times \boxed{2}$$

$$(\boxed{12} + \boxed{3}) \div (\boxed{7} - \boxed{2}) = \boxed{3}$$

$$\boxed{37} = (\boxed{15} - \boxed{5}) \times \boxed{3} + \boxed{7}$$

$$\boxed{18} \div \boxed{2} = \boxed{7} \times \boxed{2} - \boxed{5}$$

$$(\boxed{5} \times \boxed{9}) - (\boxed{6} \times \boxed{7}) = \boxed{3}$$