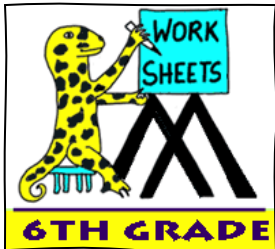


# MATH SALAMANDERS

## 6<sup>TH</sup> GRADE MATH GRAB PACK

### SUMMER EDITION

## ANSWERS



- This is the **answer pack** for our 6th Grade Math Grab Pack Fall Edition.
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## COMPARING ABSOLUTE VALUES 1 ANSWERS

Use the  $>$ ,  $<$  or  $=$  symbols to compare these expressions involving absolute values.

---

1)  $|7| > |5|$                       2)  $|10| = |-10|$                       3)  $|14| > |-12|$

---

4)  $|-24| > |-15|$                       5)  $|7| < |-10|$                       6)  $|-12| < |18|$

---

7)  $|-1| < |-3|$                       8)  $|-4| = 4$                       9)  $|-2| < |-5|$

---

10)  $|-12| > |7|$                       11)  $|-5| < |-10|$                       12)  $|14| < |-15|$

---

13)  $|3.5| > |-2|$                       14)  $|-4| < |-5.5|$                       15)  $|-0.7| > |0.5|$

---

16)  $|-0.3| < |-0.6|$                       17)  $|-14| = |14|$                       18)  $|-1.2| > |-0.8|$

---

19)  $|-25| > |23|$                       20)  $10 = |-10|$                       21)  $|10| > -10$

---

22)  $|-4.9| > |2.7|$                       23)  $-5.2 < |-2.8|$                       24)  $0.9 > |-0.5|$

---

25)  $|-0.6| > |0.25|$                       26)  $|0.45| < |-0.7|$                       27)  $-3.6 < |-2.9|$

---

28)  $|-2.5| = |2.5|$                       29)  $|1 \frac{1}{4}| > | \frac{3}{4}|$                       30)  $| -\frac{1}{2}| < |-1 \frac{1}{4}|$

---

*CHALLENGE: Put these values in order, from smallest to largest.*

$ -9 $	$-1.4$	$ -3.6 $	$-4.5$	$3.2$	$ 2.8 $
--------	--------	----------	--------	-------	---------

$-4.5$	$-1.4$	$ 2.8 $	$3.2$	$ -3.6 $	$ -9 $
Smallest					Largest

## USING EXPONENTS SHEET 6:1 ANSWERS

$1) 3^2 = 3 \times 3 = 9$

$2) 2^3 = 2 \times 2 \times 2 = 8$

$3) 6^2 = 6 \times 6 = 36$

$4) 9^2 = 9 \times 9 = 81$

$5) 3^3 = 3 \times 3 \times 3 = 27$

$6) 7^2 = 7 \times 7 = 49$

*Use a calculator to work out these exponents below:*

$7) 4^3 = 4 \times 4 \times 4 = 64$

$8) 2^5 = 2 \times 2 \times 2 \times 2 \times 2 = 32$

$9) 5^4 = 5 \times 5 \times 5 \times 5 = 625$

$10) 9^3 = 9 \times 9 \times 9 = 729$

$11) 3^5 = 243$

$12) 7^4 = 2401$

$13) 10^5 = 100000$

$14) 2^7 = 128$

$15) 9^5 = 59049$

$16) 16^3 = 4096$

$17) 6^1 = 6$

$18) 5^6 = 15625$

$19) 78^2 = 6084$

20) Work out these exponents, then put them in order, from smallest to largest.

$5^6$

$2^9$

$6^4$

$9^3$

$10^4$

$7^5$

$\underline{2^9 = 512}$

$\underline{9^3 = 729}$

$\underline{6^4 = 1296}$

$\underline{10^4 = 10000}$

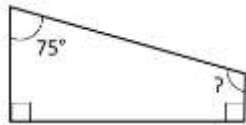
$\underline{5^6 = 15625}$

$\underline{7^5 = 16807}$

Smallest

Largest

# MENTAL MATH QUIZ 6:5 ANSWERS

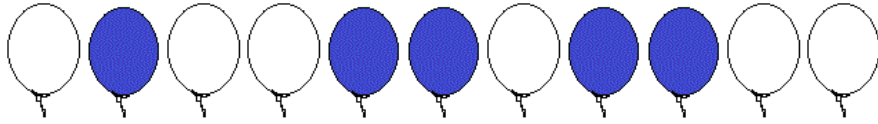
1)	30% of \$180	<b>\$54</b>
2)	Work out $6 \times 10^5$	<b>600,000</b>
3)	Work out the value of this expression: $(11 - 6 \div 2) \times 3$	<b>24</b>
4)	Write $8.27 \times 10^3$ in standard form.	<b>8270</b>
5)	If you multiply a number by another number, it gets bigger. Is this: <i>always true</i> <i>sometimes true</i> <i>never true</i>	<b>sometimes true</b> 3 x 4 bigger 3 x ½ smaller
6)	$3 \frac{4}{5} + 1 \frac{3}{4}$	<b><math>5 \frac{11}{20}</math> or <math>\frac{111}{20}</math></b>
7)	I put \$4000 in a savings account paying 2% interest annually. How much money will I have at the end of the year?	<b>\$4080</b>
8)	What is the missing number: _____ feet = $8 \frac{1}{3}$ yards	<b>25</b>
9)	A submarine is submerged at a depth of 120 m. It dives $p$ meters further down. Write an expression to represent its height above sea level now.	<b>-120 - p</b> or <b>-(120 + p)</b>
10)	Which of these values is a solution for this inequality: $5 > 2t + 1$ a) $t = 4$ b) $t = 0$ c) $t = 3$ d) $t = 2$	<b>b) <math>t = 0</math></b>
11)	Tyger draws a rectangle ABCD on the coordinate grid. The coordinates of A = (-3, 5), B = (6, 5) and C = (6, 1). What are the coordinates of point D?	<b>D = (-3, 1)</b>
12)	Find all 3 factor pairs of 45.	<b><u>1 and 45</u> <u>3 and 15</u> <u>5 and 9</u></b>
13)	Solve $4x = 240$ .	$x = $ <b><u>60</u></b>
14)	Southampton Salamanders score 52 points in their first two football games. They score 6 more points in their first game than their second. How many points did they score in each game?	1 <sup>st</sup> Game <b><u>29</u></b> 2 <sup>nd</sup> Game <b><u>23</u></b>
15)	Work out $(8 - 5)^3$	<b>27</b>
16)	What is 2 lb 8 oz + 3 lb 10 oz	<b><u>6</u> lb <u>2</u> oz</b>
17)	Sally watches $\frac{1}{3}$ of a film. It takes 45 minutes. How long is the film?	<b><u>2</u> hr <u>15</u> min</b>
18)	What is the missing angle? 	<b>105°</b>



## COMPARING UNIT RATES & COSTS SHEET 6.1 ANSWERS

	Cost	Unit Rate/ Cost (\$)		Cost	Unit Rate/ Cost (\$)
1)			8)		
5 Tyger bars	\$2.50	\$0.50	5 person group pass	\$22	\$4.40
3 Tyger bars	\$1.80	\$0.60	8 person group pass	\$30	\$3.75
8 Tyger bars	\$3.20	\$0.40	12 person group pass	\$48	\$4
2)			9)		
12 packs of crackers	\$4.20	\$0.35	pack of 8 apples	\$2.40	\$0.30
8 packs of crackers	\$2.48	\$0.31	pack of 15 apples	\$4.20	\$0.28
3 packs of crackers	\$1.20	\$0.40	pack of 24 apples	\$7	\$0.29
3)			10)		
8 cans of coca cola	\$6	\$0.75	20-wash detergent box	\$7	\$0.35
12 cans of coca cola	\$7.80	\$0.65	50-wash detergent box	\$20	\$0.40
16 cans of coca cola	\$9.60	\$0.60	80-wash detergent box	\$30	\$0.38
4)			11)		
6 boxes of popcorn	\$8	\$1.33	12 packs of post-its	\$5	\$0.42
12 boxes of popcorn	\$14	\$1.17	30 packs of post-its	\$12	\$0.40
9 boxes of popcorn	\$10	\$1.11	50 packs of post-its	\$17	\$0.34
5)			12)		
12 cartons of juice	\$15	\$1.25	5 months of MathFlix	\$19	\$3.80
20 cartons of juice	\$24	\$1.20	9 months of MathFlix	\$34	\$3.78
4 cartons of juice	\$6	\$1.50	12 months of MathFlix	\$46	\$3.83
6)			13)		
pack of 10 pens	\$14	\$1.40	20 sheets of card	\$3	\$0.15
pack of 8 pens	\$11	\$1.38	50 sheets of card	\$6	\$0.12
pack of 3 pens	\$4	\$1.33	80 sheets of card	\$10	\$0.13
7)			14)		
24 cupcakes	\$7.20	\$0.30	24 month subscription	\$80	\$3.33
16 cupcakes	\$6	\$0.38	12 month subscription	\$42	\$3.50
6 cupcakes	\$2.50	\$0.42	15 month subscription	\$57	\$3.80

# PART-TO-PART RATIO SHEET 2 ANSWERS

1)



Ratio of  to 

6 to 5

6 : 5

2)



Ratio of  to 

3 to 5

3 : 5

3)



Ratio of  to 

7 to 5

7 : 5

4)



Ratio of  to 

4 to 7

4 : 7

5)

31, 24, 17, 42, 18, 10, 12, 29, 13

Ratio of odd to even

4 to 5

4 : 5

6)



Ratio of 2d shapes to  
3d shapes

7 to 4

7 : 4

# QUADRA'S OPERATION PUZZLE 6A ANSWERS

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

$$\left( \boxed{15} \div \boxed{5} \right) \times \left( \boxed{6} - \boxed{2} \right) = \boxed{12}$$

$$\boxed{8} \times \left( \boxed{3} + \boxed{6} \right) \div \boxed{4} = \boxed{18}$$

$$\left( \boxed{8} \times \boxed{3} \right) \div \boxed{4} + \boxed{3} = \boxed{9}$$

$$\boxed{7} = \left( \boxed{13} + \boxed{8} \right) \div \left( \boxed{8} - \boxed{5} \right)$$

$$\boxed{1\frac{1}{2}} \times \boxed{4} = \left( \boxed{14} + \boxed{4} \right) \div \boxed{3}$$

$$\boxed{20} \div \boxed{5} - \left( \boxed{3} \times \boxed{3} \right) = \boxed{-5}$$

$$\boxed{4} \times \boxed{9} - \left( \boxed{5} \times \boxed{8} \right) = \boxed{-4}$$

$$\boxed{-6} = \left( \boxed{24} - \boxed{3} \right) \div \boxed{7} - \boxed{9}$$

$$\boxed{6} \div \boxed{8} = \boxed{\frac{1}{2}} \times \boxed{3} \div \boxed{2}$$

$$\left( \boxed{15} - \boxed{12} \right) - \left( \boxed{48} \div \boxed{6} \right) = \boxed{-5}$$

## MULTIPLYING AND DIVIDING FRACTIONS 2 ANSWERS

$$1) \frac{2}{9} \times \frac{1}{2} = \frac{2}{18} = \frac{1}{9}$$

$$2) \frac{3}{5} \div \frac{2}{3} = \frac{9}{10}$$

$$3) \frac{3}{8} \times \frac{5}{6} = \frac{15}{48} = \frac{5}{16}$$

$$4) \frac{3}{8} \div \frac{3}{7} = \frac{21}{24} = \frac{7}{8}$$

$$5) \frac{4}{7} \times \frac{3}{8} = \frac{12}{56} = \frac{3}{14}$$

$$6) \frac{7}{6} \div \frac{3}{4} = \frac{28}{18} = \frac{14}{9}$$

$$7) \frac{4}{3} \times \frac{3}{5} = \frac{4}{5}$$

$$8) \frac{5}{6} \div \frac{2}{3} = \frac{15}{12} = \frac{5}{4}$$

$$9) \frac{2}{7} \times \frac{7}{9} = \frac{2}{9}$$

$$10) \frac{5}{4} \div \frac{2}{3} = \frac{15}{8}$$

$$11) \frac{4}{3} \times \frac{2}{7} = \frac{8}{21}$$

$$12) \frac{7}{4} \div \frac{5}{8} = \frac{56}{20} = \frac{14}{5}$$

$$13) \frac{5}{6} \times \frac{4}{7} = \frac{20}{42} = \frac{10}{21}$$

$$14) \frac{2}{7} \div \frac{1}{3} = \frac{6}{7}$$

$$15) \frac{1}{9} \times \frac{3}{4} = \frac{3}{36} = \frac{1}{12}$$

$$16) \frac{4}{5} \div \frac{2}{5} = \frac{20}{10} = 2$$

$$17) \frac{3}{8} \times \frac{2}{5} = \frac{6}{40} = \frac{3}{20}$$

$$18) \frac{3}{4} \div \frac{1}{4} = \frac{12}{4} = 3$$

$$19) \frac{7}{2} \times \frac{4}{9} = \frac{28}{18} = \frac{14}{9}$$

$$20) \frac{2}{9} \div \frac{4}{5} = \frac{10}{36} = \frac{5}{18}$$

$$21) \frac{6}{5} \times \frac{3}{7} = \frac{18}{35}$$

$$22) \frac{5}{2} \div \frac{7}{8} = \frac{40}{14} = \frac{20}{7}$$

$$23) \frac{5}{7} \times \frac{6}{5} = \frac{6}{7}$$

$$24) \frac{8}{3} \div \frac{4}{7} = \frac{56}{12} = \frac{14}{3}$$



## EVALUATE THE EXPRESSION 6:2 ANSWERS

EXPRESSION	VALUE
1) $3(2 + 5)$	$3 \times 7 = 21$
2) $6(9 - 2)$	$6 \times 7 = 42$
3) $4(7 + 8)$	$4 \times 15 = 60$
4) $8(13 - 9)$	$8 \times 4 = 32$
5) $10(12 - 5)$	$10 \times 7 = 70$
6) $4(7 + 3 - 1)$	$4 \times 9 = 36$
7) $6(7 - 4 + 3)$	$6 \times 6 = 36$
8) $8(15 - 11 + 2)$	$8 \times 6 = 48$
9) $15(24 - 21)$	$15 \times 3 = 45$
10) $5(2^2 + 5)$	$5 \times 9 = 45$
11) $2(15 - 3^2)$	$2 \times 6 = 12$
12) $9(2 \times 6 - 5)$	$9 \times 7 = 63$
13) $4(3 + 4 \times 2)$	$4(3 + 8) = 4 \times 11 = 44$
14) $12(19 - 6 \times 3)$	$12(19 - 18) = 12 \times 1 = 12$
15) $6(15 \div 3 + 2)$	$6(5 + 2) = 6 \times 7 = 42$
16) $3(20 - 4 \times 5)$	$3(20 - 20) = 3 \times 0 = 0$
17) $8(5^2 - 21)$	$8(25 - 21) = 8 \times 4 = 32$
18) $\frac{1}{2}(12 - 2^3)$	$\frac{1}{2}(12 - 8) = \frac{1}{2} \times 4 = 2$
19) $3(6 \times 5 - 22)$	$3(30 - 22) = 3 \times 8 = 24$
20) $\frac{1}{2}(34 - 4 \times 7)$	$\frac{1}{2}(34 - 28) = \frac{1}{2} \times 6 = 3$

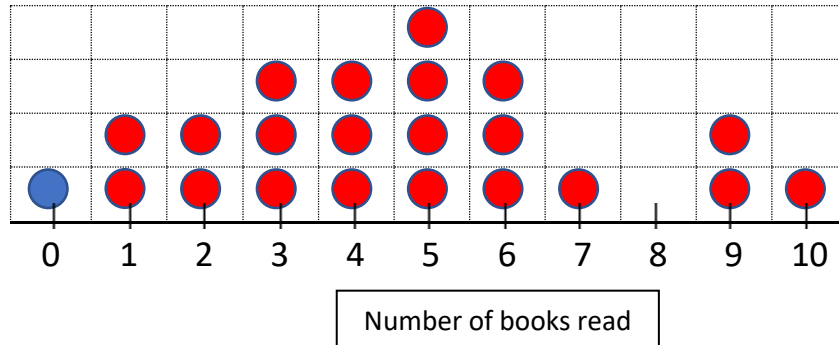
# CREATING DOT PLOTS SHEET 6:2 ANSWERS



1) This data shows the number of books read in a month by a group of students.

Books read	3	5	1	4	9	7	5	3	6	10	0
	9	4	2	6	5	3	6	5	2	4	1

a) Use the data to complete the dot plot to show these results.



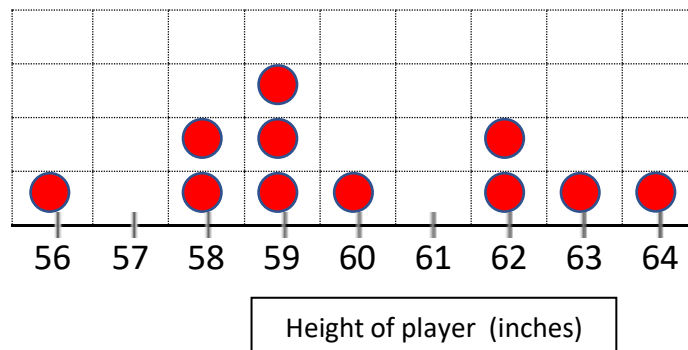
b) Complete the missing information in the table below:

Mode books read	Median books read	Range
<u>5</u>	<u>4.5</u>	<u>10 books</u>

2) This data shows the height of a group of children in the soccer team.

Height (inches)	59	62	59	60	58	59	62	58	64	56	63
-----------------	----	----	----	----	----	----	----	----	----	----	----

a) Use the information to draw a box plot showing this data.



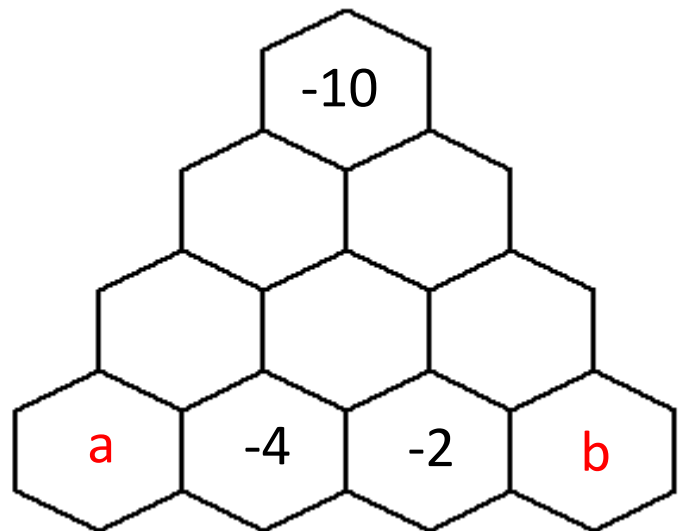
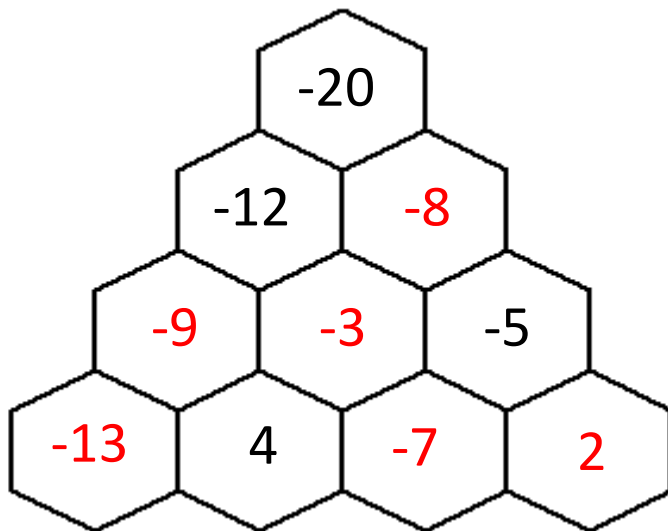
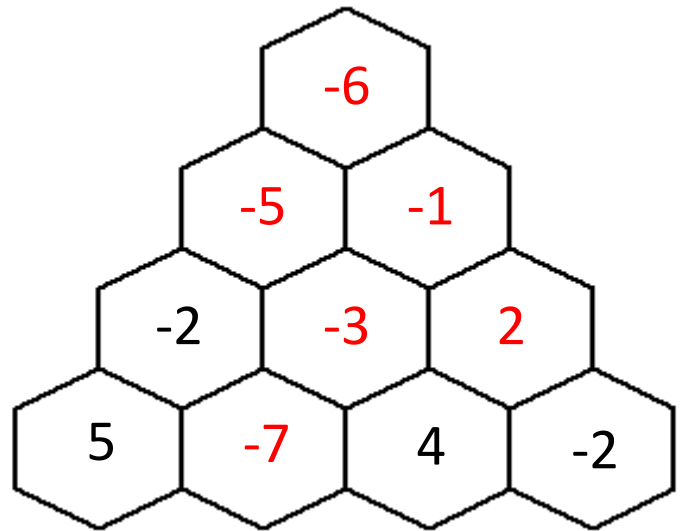
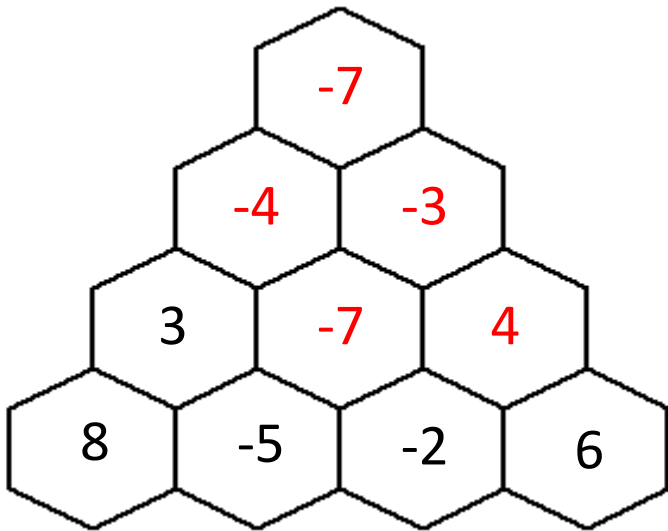
b) Complete the missing information in the table below:

Median height	Range of heights	Mean height
<u>59 inches</u>	<u>8 inches</u>	<u>60 inches</u>

## ADD & SUBTRACT NEGATIVE NUMBERS SHEET 1 ANSWERS

- 1)  $5 + (-3) = 2$
- 2)  $5 - (-3) = 8$
- 3)  $2 + (-4) = -2$
- 4)  $2 - (-4) = 6$
- 5)  $(-5) + 3 = -2$
- 6)  $(-5) - 3 = -8$
- 7)  $(-3) + 6 = 3$
- 8)  $(-3) - 6 = -9$
- 9)  $2 + (-5) = -3$
- 10)  $2 - (-5) = 7$
- 11)  $7 + (-1) = 6$
- 12)  $7 - (-1) = 8$
- 13)  $1 + (-6) = -5$
- 14)  $1 - (-6) = 7$
- 15)  $(-4) + (-5) = -9$
- 16)  $(-4) - (-5) = 1$
- 17)  $(-3) + (-7) = -10$
- 18)  $(-3) - (-7) = 4$
- 19)  $4 + (-6) = -2$
- 20)  $4 - (-6) = 10$
- 21)  $3 + (-4) = -1$
- 22)  $(-4) - 5 = -9$
- 23)  $(-6) + 5 = -1$
- 24)  $2 - (-6) = 8$
- 25)  $3 + (-5) = -2$
- 26)  $5 - (-3) = 8$
- 27)  $8 + (-7) = 1$
- 28)  $(-3) - (-4) = 1$
- 29)  $7 + (-10) = -3$
- 30)  $(-1) - 7 = -8$
- 31)  $(-6) + 11 = 5$
- 32)  $(-8) - (-10) = 2$
- 33)  $(-10) + 7 = -3$
- 34)  $8 - 12 = -4$
- 35)  $4 + (-11) = -7$
- 36)  $(-6) - 3 = -9$
- 37)  $(-5) + (-4) = -9$
- 38)  $(-2) - (-10) = 8$
- 39)  $(-8) + 15 = 7$
- 40)  $(-7) - (-12) = 5$

# SALLY'S HEXAGON NUMBER PUZZLE 6 ANSWERS

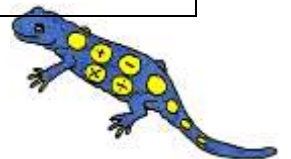


For the last example, any solution of the form  $a+b=8$ .

Examples

$a=4, b=4$	$a=2, b=6$	$a=8, b=0$	$a=10, b=-2$	$a=2\frac{1}{2}, b=5\frac{1}{2}$
------------	------------	------------	--------------	----------------------------------

There are an infinite number of solutions.



## ALGEBRA WORD PROBLEMS SHEET 2 ANSWERS

1)	In a stable, there are <b>h</b> horses. 6 of them are taken out into the yard to exercise. How many are left in the stable?	= $h - 6$
2)	There are <b>c</b> cyclists in a cycle race. $\frac{3}{4}$ of the cyclists finish the race. How many cyclists did not finish?	= $\frac{1}{4}c$
3)	There are 56 people on a bus. <b>t</b> people get off at the next stop and 3 more people get on. How many people are on the bus now?	= $56 - t + 3$ or $59 - t$
4)	In a class of 30 children, <b>b</b> children come to school by bus. What fraction of the class come by bus?	= $b/30$
5)	In a class of <b>c</b> children, 16 have blue eyes. What fraction of the class have blue eyes?	= $16/c$
6)	There are <b>b</b> people on a bus. At the next stop, 7 people get off and 10 more get on. How many more people are on the bus now?	= $10 - 7 = 3$ trick question
7)	I cut a long piece of wood into 50cm pieces. I manage to cut <b>w</b> pieces of wood, and there is 20cm left over. How long was the wood to start with?	= $(50w + 20)$ cm
8)	I have <b>c</b> chocolates which I share equally between by 5 friends. How many do they each get?	= $c/5$
9)	I have 5 pens already. I am given 2 packs of pens. Each pack contains <b>t</b> pens. How many pens do I have now?	= $2t + 5$
10)	There are <b>d</b> deer and <b>p</b> pheasants in the woods. How many legs in total?	= $4d + 2p$

## MEAN, MEDIAN, MODE AND RANGE SHEET 3 ANSWERS

1)	{31, 27, 19, 22, 21, 18, 19, 25, 29, 34, 30}		
order	{18, 19, 19, 21, 22, 25, 27, 29, 30, 31, 34}		
Mean <u>25</u>	Median <u>25</u>	Mode <u>19</u>	Range <u>16</u>
2)	{8, 14, 7, 15, 14, 11, 10, 9, 19, 11, 14}		
order	{7, 8, 9, 10, 11, 11, 14, 14, 14, 15, 19}		
Mean <u>12</u>	Median <u>11</u>	Mode <u>14</u>	Range <u>12</u>
3)	{106, 112, 98, 102, 112, 95, 106, 101, 98, 103, 117, 98}		
order	{95, 98, 98, 98, 101, 102, 103, 106, 106, 112, 112, 117}		
Mean <u>104</u>	Median <u>102.5</u>	Mode <u>98</u>	Range <u>22</u>
4)	{142, 353, 271, 396, 217, 92, 198, 271, 313, 502, 424}		
order	{92, 142, 198, 217, 271, 271, 313, 353, 396, 424, 502}		
Mean <u>289</u>	Median <u>271</u>	Mode <u>271</u>	Range <u>410</u>
5)	{96, 103, 106, 98, 95, 97, 101, 105, 103, 98, 101, 95, 101, 117, 99}		
order	{95, 95, 96, 97, 98, 98, 99, 101, 101, 101, 103, 103, 105, 106, 117}		
Mean <u>101</u>	Median <u>101</u>	Mode <u>101</u>	Range <u>22</u>
6)	{12, 22, 8, 4, 11, 9, 15, 9, 11, 10, 8, 12, 11, 18, 8, 10, 12, 8}		
order	{4, 8, 8, 8, 8, 9, 9, 10, 10, 11, 11, 11, 12, 12, 12, 15, 18, 22}		
Mean <u>11</u>	Median <u>10.5</u>	Mode <u>8</u>	Range <u>18</u>

## PERCENTAGE WORD PROBLEMS 6.1A ANSWERS

- 1) In a class of 30 children, 18 of the children have blue eyes.  
What percentage of the class have blue eyes?

$$(18 \div 30) \times 100 = 60$$

60% of the class have blue eyes.

- 2) In a packet of 40 skittles, 12 are red.  
What percentage of the skittles are red?



$$(12 \div 40) \times 100 = 30$$

30% of the skittles are red.

- 3) Tyger spends 25 minutes studying mathematics, 35 minutes studying science and 40 minutes studying history. What percentage of his time is spend studying science?

$$25 + 35 + 40 = 100 \text{ minutes}$$

So he spends  $35/100 = 35\%$  of his time studying science.

- 4) Frazer scores 70% in a test. If there are a total of 40 marks, how many marks did he get?

$$70\% = 0.7$$

$$0.7 \times 40 = 28$$

He got 28 marks in the test.

- 5) Toronto FC have lost 5 of the 20 games they have played. What percentage of games have they not lost?



$$(5 \div 20) \times 100 = 25\%$$

$$100\% - 25\% = 75\%$$

They have not lost 75% of their games.

- 6) In a group of 32 children, 25% have blue eyes. How many children do not have blue eyes?



$$25\% \text{ have blue eyes} = \frac{1}{4}$$

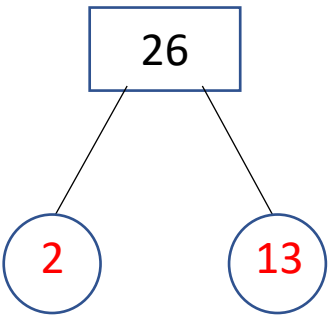
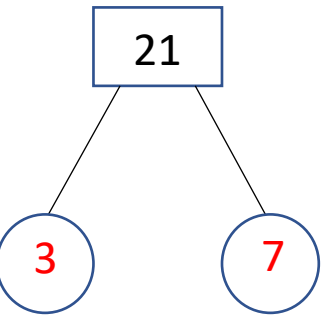
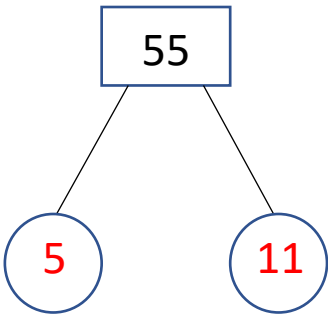
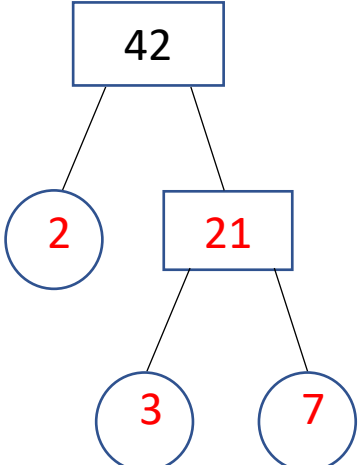
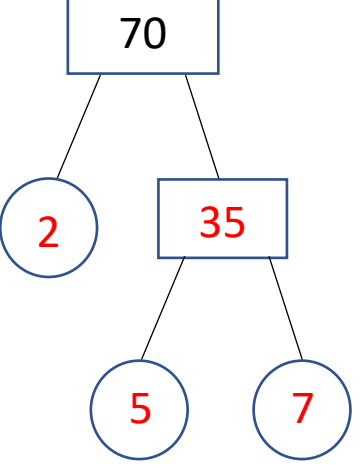
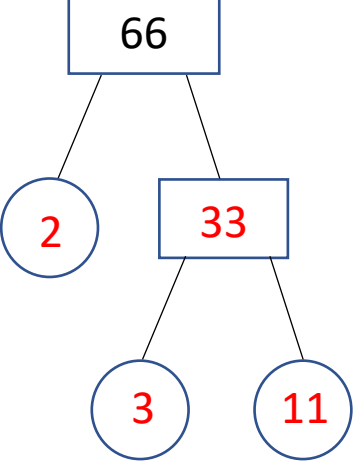
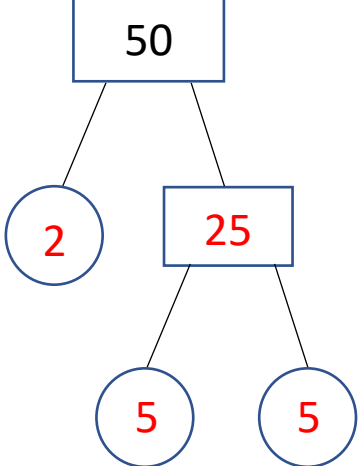
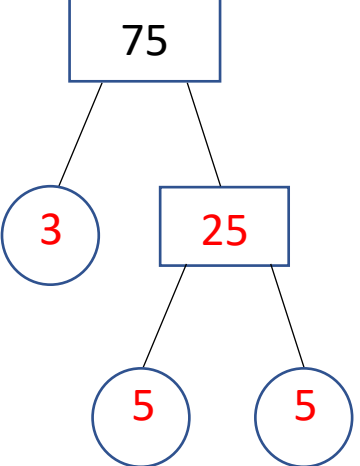
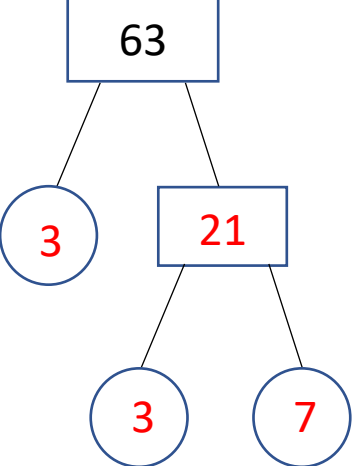
$$\frac{1}{4} \text{ of } 32 = 32 \div 4 = 8 \text{ children.}$$

8 children have blue eyes.

So  $32 - 8 = 24$  children do not have blue eyes.

## FACTOR TREES SHEET 2 ANSWERS

Please note – the factor trees can be completed in different ways, with the prime factors in a different order.

1)  $26 = \underline{2} \times \underline{13}$	2)  $21 = \underline{3} \times \underline{7}$	3)  $55 = \underline{5} \times \underline{11}$
4)  $42 = \underline{2} \times \underline{3} \times \underline{7}$	5)  $70 = \underline{2} \times \underline{5} \times \underline{7}$	6)  $66 = \underline{2} \times \underline{3} \times \underline{11}$
7)  $50 = \underline{2} \times \underline{5} \times \underline{5}$	8)  $75 = \underline{3} \times \underline{5} \times \underline{5}$	9)  $63 = \underline{3} \times \underline{3} \times \underline{7}$