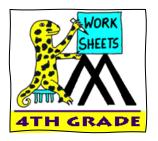
MATH SALAMANDERS

4TH GRADE MATH GRAB PACK

FALL EDITION

ANSWERS



- This is the answer pack for our 4th Grade Math Grab Pack Fall Edition.
- We have **lots more free** fourth grade math resources come visit our site for more!

https://www.math-salamanders.com/4th-grade-math-worksheets.html

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Use the link below to give us some feedback on our pack – we are always looking to improve the quality of our resources!

https://www.math-salamanders.com/math-grab-packs.html



PLACE VALUE TO 1DP: EXPAND IT 1 ANSWERS

Write these numbers in expanded form.

			Write these numbers in expanded form.
1)	15.2	=	10 + 5 + 0.2
2)	37.5	=	<u>30 + 7 + 0.5</u>
3)	29.6	=	20 + 9 + 0.6
4)	32.1	=	<u>30 + 2 + 0.1</u>
5)	15.4	=	<u>10 + 5 + 0.4</u>
6)	32.6	=	<u>30 + 2 + 0.6</u>
7)	61.3	=	<u>60 + 1 + 0.3</u>
8)	80.5	=	<u>80 + 0.5</u>
9)	37.1	=	<u>30 + 7 + 0.1</u>
10)	93.2	=	90 + 3 + 0.2
11)	74.6	=	<u>70 + 4 + 0.6</u>
12)	68.3	=	60 + 8 + 0.3
13)	59.4	=	<u>50 + 9 + 0.4</u>
14)	9.7	=	9 + 0.7
15)	41.3	=	40 + 1 + 0.3
16)	19.8	=	<u>10 + 9 + 0.8</u>
17)	30.4	=	<u>30 + 0.4</u>
18)	7.6	=	<u>7 + 0.6</u>
19)	36.5	=	<u>30 + 6 + 0.5</u>
20)	194.1	=	100 + 90 + 4 + 0.1

STANDARD FORM UP TO 5-DIGITS SHEET 1 ANSWERS

Write down these numbers in standard form.

1)	8 thousands + 7 hundreds + 4 tens + 5 ones =	<u>8,745</u>
2)	5 thousands + 2 hundreds + 9 tens + 3 ones =	<u>5,293</u>
3)	4 ten thousands + 7 thousands + 3 hundreds =	47,300
4)	2 ten thousands + 8 hundreds + 5 tens + 9 ones =	<u>20,859</u>
5)	7 ten thousands + 2 thousands + 8 tens + 2 ones =	<u>72,082</u>
6)	3 ten thousands + 6 thousands + 8 hundreds + 4 tens =	<u>36,840</u>
7)	8 ten thousands + 2 hundreds + 9 tens =	80,290
8)	3 thousands + 7 ones =	3,007
9)	4 ten thousands + 8 hundreds + 5 ones =	40,805
10)	3 ten thousands + 9 thousands + 2 tens =	<u>39,020</u>
11)	5 ten thousands + 1 thousand + 8 hundreds + 3 tens =	<u>51,830</u>
12)	9 ten thousands + 7 hundreds + 4 tens + 8 ones =	90,748
13)	7 ten thousands + 6 tens =	70,060
14)	5 ten thousands + 2 hundreds + 9 ones =	<u>50,209</u>
15)	6 thousands + 9 hundreds + 3 ones =	<u>6,903</u>
16)	7 ten thousands + 8 tens + 4 ones =	70,084
17)	2 ten thousands + 1 thousand + 7 hundred + 2 ones =	21,702
18)	5 ten thousands + 2 hundreds + 6 tens + 7 ones =	<u>50,267</u>
19)	4 ten thousands + 6 hundreds + 9 ones =	40,609
20)	8 ten thousands + 7 hundreds + 5 tens =	80,750
_		

MENTAL MATH QUIZ 4:2 ANSWERS

1)	0.6 x 4	2.4
2)	Which two of the numbers below are prime? 17 14 15 18 19 10	17 and 19
3)	How many acute angles?	2
4)	What is the perimeter of a square with sides 5 inches?	20 inches
5)	Which of these numbers are divisible by 5? 32 51 45 20 18	45 and 20
6)	Add together $\frac{2}{10}$, $\frac{3}{10}$ and $\frac{4}{10}$	% 0
7)	9278 = 9008 +	270
8)	What is the name of this shape? trapezoid rectangle rhombus square	rhombus
9)	Round 348 to the nearest ten.	350
10)	A 6lb chicken takes 15 minutes plus 20 minutes per pound to cook. How long do I need to cook it for? h min	2 h 15 min
11)	I buy 10 raffle tickets at \$1.60 per ticket. How much money have I spent?	\$16
12)	¼ of 32 subtract ⅓ of 18	8-6=2
13)	How many quarters make \$3?	12
14)	Sally spends \$4.30 on a sandwich and \$2.50 on a drink. How much change from \$10?	\$3.20
15)	In a class, $\frac{2}{5}$ of the children are boys. What fraction are girls?	3/5
16)	I set off at 7:40am. My journey takes 45 min. When do I arrive?	8:25am

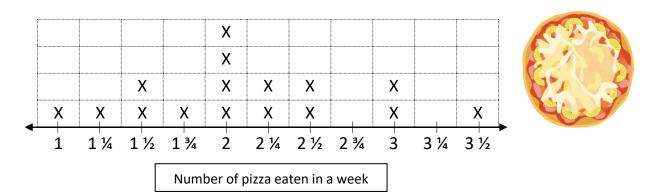
NEWTON'S CROSSES PUZZLE 4 ANSWERS

Please note that there are several solutions for each cross puzzle. As long as the number in the center of the cross is the same as the solution below, and the rows and columns contain the same numbers then the answer should work even if the numbers are in a different place.

numbers are in a unferent place.	1		
One solution for each puzzle is given.	30		
1)			
10 20 30 40 50 60	20	50	60
Total must be 130		40	
		40	
		10	
		10	
2)			
5 10 15 20 25 30		10	
Total must be 60	25	1 [20
	25	15	20
		30	
		5	

INTERPRETING LINE PLOTS SHEET 4:1 ANSWERS

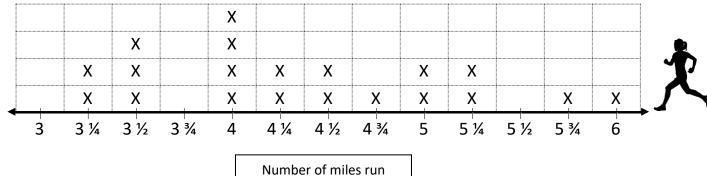
1) A group of students record how many pizza they eat in a week. Here is a line plot showing their results:



Tick the correct box about each of these statements.

Statement	True	False	Can't tell
Most students ate more than 2 pizza.		✓	
Twice as many students ate 2 pizza than 3 pizza.	✓		
Pizza was more popular with boys than girls.			✓
A quarter of the students ate 1 ½ pizza or less.	✓		

2) This line plot shows the number of miles completed by a group of runners.



- a) How many people ran over 5 miles? 4
- b) How much further did the person who ran the longest distance run than the person who ran the shortest distance? 2 ¾ miles
- c) What fraction of runners ran less than 4 miles? $\frac{5}{20}$ or $\frac{1}{4}$

COLUMN ADDITION 3 DIGITS MULTI-ADDENDS

SHEET 1 ANSWERS

FRACTION OF A NUMBER PROBLEMS 1A ANSWERS

		WORKING OUT
1)	There are a total of 20 clownfish and angelfish in a tank.	¼ or 20 = 5
Olio	¼ of the fish are angelfish.	20 – 5 = 15
	How many of each type of fish are there?	
	There are <u>5</u> angelfish and <u>15</u> clownfish.	
2)	Newton swims a total of 12 lengths. He swims a third of	$^{1}/_{3}$ of 12 = 4
	the lengths on his front and the rest on his back.	
	How many lengths does he swim on his front?	
	He swims <u>4</u> lengths on his front.	
3)	There are 30 people on a train. A fifth of the people get	$\frac{1}{5}$ of 30 = 6
	off at the next stop. How many get off the train?	
	6 people get off the train.	
4)	Captain has some gold and silver coins. He has 24 coins	$\frac{1}{6}$ of 24 = 4
	in all. $\frac{1}{6}$ of his coins are gold and the rest are silver.	24 - 4 = 20
	How many of each sort of coin does he have?	
	He has 4 gold and 20 silver coins.	
5)	Sally and Newton go fishing and catch 12 fish. Sally	¾ of 12 = 9
\triangleleft	catches ¾ of the fish. How many does Newton catch?	12 - 9 = 3
		$(or \frac{1}{4} of 12 = 3)$
	Newton catches <u>3</u> fish.	
6)	There is a group of 25 puffins on an island. 1/5 of the	$\frac{1}{5}$ of 25 = 5
1	group are adults and the rest are pufflings (puffin	25 - 5 = 20
3	chicks). How many adults and pufflings are there?	
	There are <u>5</u> adults and <u>20</u> pufflings.	

MULTIPLYING BY 10 SHEET 1 ANSWERS

A) Work out these multiplications.

1) $7 \times 10 = \frac{70}{10}$

2) $2 \times 10 = 20$

3) $10 \times 8 = 80$

4) 12 x 10 = 120

5) 10 x 15 = <u>150</u>

6) 18 x 10 = <u>180</u>

7) 10 x 16 = <u>160</u>

8) 22 x 10 = 220

9) $10 \times 21 = 210$

10) 32 x 10 = 320

11) $10 \times 30 = 300$

12) 28 x 10 = 280

13) $10 \times 43 = 430$

14) $54 \times 10 = 540$

15) 10 x 37 = 370

16) 80 x 10 = 800

17) 10 x 47 = 470

18) 59 x 10 = 590

19) 10 x 78 = 780

20) 65 x 10 = 650

21) 10 x 84 = <u>840</u>

22) 96 x 10 = 960

23) 10 x 59 = 590

24) 48 x 10 = 480

B) Make each of these numbers ten times bigger.

1) $14 \rightarrow \underline{140}$

 $2) \quad 26 \rightarrow 260$

3) $31 \rightarrow 310$

4) 40 → <u>400</u>

5) 19 → 190

6) $55 \rightarrow 550$

7) 73 → <u>730</u>

8) 69 → <u>690</u>

9) 94 → <u>940</u>

10) 51 → **510**

11) $86 \rightarrow 860$

12) 49 → 490

C) Fill in the missing numbers

1) 13 x <u>10</u> = 130

2) <u>18</u> x 10 = 180

3) 10 x 15 = 150

4) **10** x 19 = 190

5) 25 x 10 = <u>250</u>

6) **10** x 42 = 420

7) 10 x 36 = 360

8) <u>55</u> x 10 = 550

9) 10 x <u>30</u> = 300

10) 10 x 28 = 280

11) 10 x 74 = 740

12) 39 x 10 = 390

ANGLE CLASSIFICATION 1 ANSWERS

Angle: right	Angle: acute	Angle: obtuse
Angle: reflex	Angle: right	Angle: acute
Angle: straight	Angle: reflex	Angle: obtuse

NUMBER SEARCH PUZZLE B1 ANSWERS

3	5	3	1	7	1	2	8	7	6
4	1	1	9	7	6	8	Ø	4	5
5	5	8	6	2	2	8	0	8	4
9	ф	8	3	8	2	1	3	5	3
1	1	1	8	8	6	8	8	5	3
5	3	9	/	2	7	9	6	1	4
0	4	2	X	2	4	6	5	6	2
2	8	25	7	2	8	2	8	1	8
19	Z	8	9	6	2	1	1	1	5
8	7	4	0	9	2	9	8	5	7
	126			12	27			5935	
	250						6219		
	310				3913 7728				
	416			33	8251				
	517			40	92 8476				
	691			42	88 9515				
	758			5168 9825					

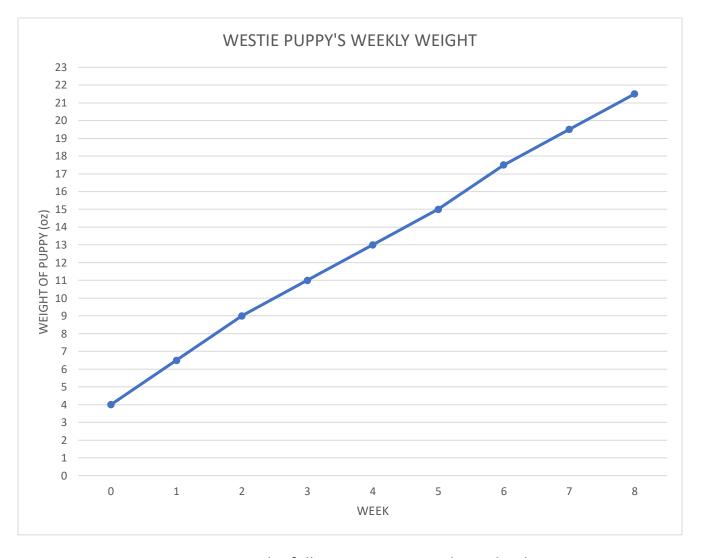
FACTORS SHEET 4:1 ANSWERS

NUMBER	FACTORS
1	1
2	1,2
3	1,3
4	1,2,4
5	1,5
6	1,2,3,6
7	1,7
8	1,2,4,8
9	1,3,9
10	1,2,5,10
11	1,11
12	1,2,3,4,6,12

NUMBER	FACTORS
13	1,13
14	1,2,7,14
15	1,3,5,15
16	1,2,4,8,16
17	1,17
18	1,2,3,6,9,18
19	1,19
20	1,2,4,5,10,20
21	1,3,7,21
22	1,2,11,22
23	1,23
24	1,2,3,4,6,8,12,24

Numbers that have exactly 2 factors (1 and themselves) are called prime numbers. Highlight all the prime numbers from 1 to 24 in the table.

LINE GRAPH WORKSHEET 4A PUPPY'S WEIGHT ANSWERS



Answer the following questions about the data.

- 1) How heavy was the puppy at 3 weeks? 11 oz
- 2) How heavy was the puppy at 7 weeks? 19.5 oz
- 3) How much heavier was the puppy at 5 weeks compared to 2 weeks? 6 oz
- 4) Which week did the puppy weigh 13 oz? Week 4
- 5) How much weight did the puppy gain from birth to 8 weeks? 17.5 oz (or 17 ½ oz)
- 6) True or false: By the time the puppy was 3 weeks old, it had more than tripled its birth weight? false

MONEY SUBTRACTION UP TO \$10 SHEET 2 ANSWERS

FOUIVALENT FRACTIONS SHEET 1

NUMBER LINES ANSWERS

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

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

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

1)
$$\frac{1}{2} = \frac{3}{6}$$
 2) $\frac{1}{4} = \frac{2}{8}$ 3) $\frac{1}{3} = \frac{2}{6}$ 4) $\frac{1}{4} = \frac{3}{12}$

5)
$$\frac{1}{2} = \frac{4}{8}$$

6)
$$\frac{1}{3} = \frac{4}{12}$$

7)
$$\frac{6}{12} = \frac{1}{2}$$

5)
$$\frac{1}{2} = \frac{4}{8}$$
 6) $\frac{1}{3} = \frac{4}{12}$ 7) $\frac{6}{12} = \frac{1}{2}$ 8) $\frac{2}{3} = \frac{4}{6}$

9)
$$\frac{3}{4} = \frac{9}{12}$$

10)
$$\frac{6}{8} = \frac{3}{4}$$

11)
$$\frac{9}{12} = \frac{3}{4}$$

9)
$$\frac{3}{4} = \frac{9}{12}$$
 10) $\frac{6}{8} = \frac{3}{4}$ 11) $\frac{9}{12} = \frac{3}{4}$ 12) $\frac{6}{12} = \frac{4}{8}$

13)
$$\frac{4}{6} = \frac{8}{12}$$
 14) $\frac{3}{6} = \frac{2}{4}$ 15) $\frac{10}{12} = \frac{5}{6}$ 16) $\frac{8}{12} = \frac{2}{3}$

14)
$$\frac{3}{6} = \frac{2}{4}$$

15)
$$\frac{10}{12} = \frac{5}{6}$$

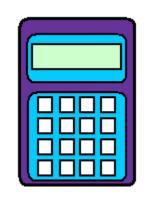
16)
$$\frac{8}{12} = \frac{2}{3}$$

BROKEN CALCULATOR PROBLEM 2 ANSWERS

Captain's calculator has broken.

Unfortunately, none of the buttons work apart from the 3, 5, +, - and = button.

You can make any of the numbers from 1 to 20 in a variety of ways. There is an example of how to make each number below.



One interesting point is that you can make the numbers 11 to 20 simply by adding 5 + 5 to all the answers from 1 to 10.

<u>3 + 3 - 5</u>	= 1	3 + 3 + 5	= 11
<u>5 - 3</u>	= 2	3+3+3+3	= 12
<u>3</u>	= 3	<u>5 + 5 + 3</u>	= 13
3+3+3-5	= 4	3+3+3+5	= 14
<u>5</u>	= 5	<u>5 + 5 + 5</u>	= 15
<u>3 + 3</u>	= 6	5+5+3+3	= 16
<u>5+5-3</u>	= 7	5+5+5+5-3	= 17
<u>5 + 3</u>	= 8	5+5+5+3	= 18
3+3+3	= 9	5+5+3+3+3	= 19
<u>5 + 5</u>	= 10	<u>5 + 5 + 5 + 5</u>	= 20