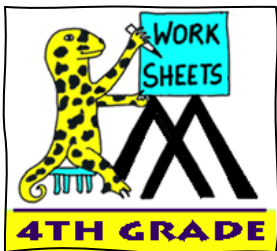


MATH SALAMANDERS

4TH GRADE MATH GRAB PACK

SUMMER EDITION

ANSWERS



- This is the **answer pack** for our 4th Grade Math Grab Pack Summer Edition.
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DECIMAL PLACE VALUE QUIZ 1

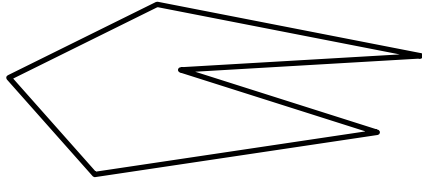
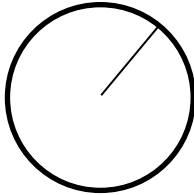
TENTHS ANSWERS

1)	$3 + 0.4 =$	3.4
2)	What is the value of the digit 4 in the number 825.4?	0.4
3)	$7 + 0.3 =$	7.3
4)	$0.6 =$ _____ tenths	6
5)	$3.4 + 2.3 =$	5.7
6)	$0.4 +$ ___ $= 1$	0.6
7)	$8.4 = 8 +$ _____	0.4
8)	$12 + 0.4 =$	12.4
9)	$7.3 =$ _____ $+ 0.3$	7
10)	$1 \div 10 =$ 0.1 (decimal) or $\frac{1}{10}$ (fraction)	
11)	Use the symbol $>$, $<$ or $=$ $8.4 > 8.2$	>
12)	How many tenths make a whole?	10
13)	Which is bigger: 14 tenths or 2 ones?	2 ones
14)	$1.3 =$ _____ tenths	13
15)	What is the value of the digit 6 in the number 763.8?	60
16)	$3 +$ _____ $= 3.7$	0.7
17)	Use the symbol $>$, $<$ or $=$ $4.6 < 5.3$	<
18)	$1 - 0.1 =$	0.9
19)	How many tenths make 2 ones?	20
20)	16 tenths =	1.6

STANDARD FORM UP TO 5-DIGITS SHEET 1A ANSWERS

1)	$20,000 + 1,000 + 800 + 10 + 5 =$	<u>21,815</u>
2)	$50,000 + 6,000 + 900 + 20 + 7 =$	<u>56,927</u>
3)	$10,000 + 2,000 + 800 + 40 + 1 =$	<u>12,841</u>
4)	$8,000 + 500 + 40 + 2 =$	<u>8,542</u>
5)	$30,000 + 8,000 + 100 + 30 + 9 =$	<u>38,139</u>
6)	$70,000 + 1,000 + 900 + 30 + 4 =$	<u>71,934</u>
7)	$6,000 + 800 + 20 + 7 =$	<u>6,827</u>
8)	$30,000 + 800 + 24 =$	<u>30,824</u>
9)	$60,000 + 4,000 + 800 + 9 =$	<u>64,809</u>
10)	$10,000 + 500 + 20 + 8 =$	<u>10,528</u>
11)	$4,000 + 200 + 3 =$	<u>4,203</u>
12)	$80,000 + 3,000 + 600 + 10 + 7 =$	<u>83,617</u>
13)	$40,000 + 100 + 4 =$	<u>40,104</u>
14)	$6,000 + 70 + 3 =$	<u>6,073</u>
15)	$20,000 + 8,000 + 5 =$	<u>28,005</u>
16)	$30,000 + 6,000 + 50 =$	<u>36,050</u>
17)	$90,000 + 40 + 8 =$	<u>90,048</u>
18)	$10,000 + 600 + 4 =$	<u>10,604</u>
19)	$70,000 + 2,000 + 800 + 7 =$	<u>72,807</u>
20)	$80,000 + 600 + 9 =$	<u>80,609</u>

MENTAL MATH QUIZ 4:5 ANSWERS

1)	Halve 540	270
2)	What number is halfway between 7 and 19?	13
3)	0.8×4	3.2
4)	What is the name of this shape? 	hexagon
5)	Three consecutive numbers add up to 21. What are they?	6,7 and 8
6)	What is this part of the circle called? <i>diameter radius chord sector</i> 	radius
7)	3 quarters is worth 4 dimes + ____ nickels	7
8)	What is the cost of 100 packs of NFL cards at \$18 a pack?	\$1800
9)	$40 \div 5 = 20 - \underline{\quad}$	12
10)	Which of these numbers is divisible by 3? 76 53 81 94 62	81
11)	In a throwing competition, Tyger throws 615cm, Captain throws $4\frac{1}{2}$ m. How much further did Tyger throw?	1.65m or 165cm
12)	Write down a prime number between 20 and 30.	23 or 29
13)	Write down the decimal 0.27 as a fraction.	$\frac{27}{100}$
14)	Reduce $\frac{28}{32}$ to its lowest terms.	$\frac{7}{8}$
15)	In a class, $\frac{3}{5}$ of the children are going to a special event. If there are 30 children in the class, how many are going?	18
16)	I set off from home at 8:55am. I arrive at 10:40am. How many minutes was my journey?	105 minutes

EQUIVALENT FRACTIONS SHEET 2 ANSWERS

FRACTION STRIPS

1)

$\frac{1}{2}$		$\frac{1}{2}$	
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$

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

2)

$\frac{1}{2}$			$\frac{1}{2}$		
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$

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

3)

$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$	
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$

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

4)

$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$	
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

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

5)

$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$

$$\frac{1}{5} = \frac{2}{10}$$

6)

$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$

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

Now use the fraction strips to answer these questions.

7) $\frac{2}{2} = \frac{4}{4}$

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

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

10) $\frac{2}{5} = \frac{4}{10}$

11) $\frac{3}{3} = \frac{6}{6}$

12) $\frac{4}{6} = \frac{8}{12}$

13) $\frac{4}{5} = \frac{8}{10}$

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

FACTORS PAIRS SHEET 4:1 ANSWERS

Please note that we have only used positive value factors in this answer sheet.

NUMBER	FACTOR PAIR 1	FACTOR PAIR 2	FACTOR PAIR 3
2	1 and 2		
3	1 and 3		
4	1 and 4	2 and 2	
5	1 and 5		
6	1 and 6	2 and 3	
7	1 and 7		
8	1 and 8	2 and 4	
9	1 and 9	3 and 3	
10	1 and 10	2 and 5	
11	1 and 11		
12	1 and 12	2 and 6	3 and 4
13	1 and 13		
14	1 and 14	2 and 7	
15	1 and 15	3 and 5	
16	1 and 16	2 and 8	4 and 4
17	1 and 17		
18	1 and 18	2 and 9	3 and 6
19	1 and 19		
20	1 and 20	2 and 10	4 and 5

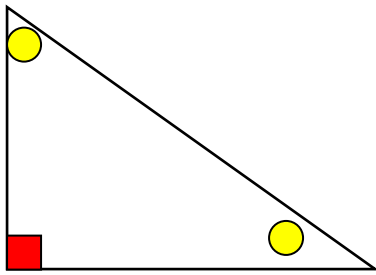
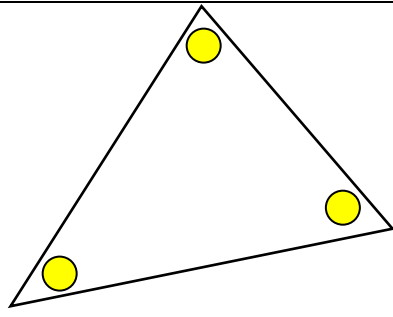
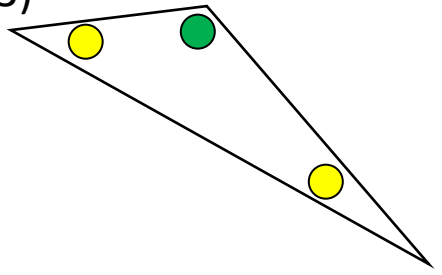
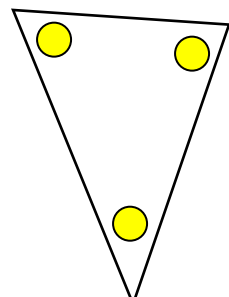
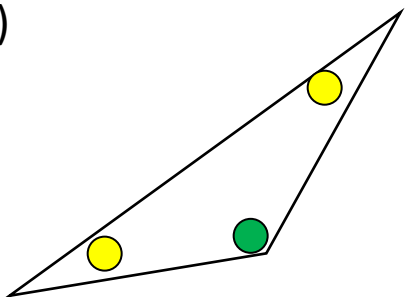
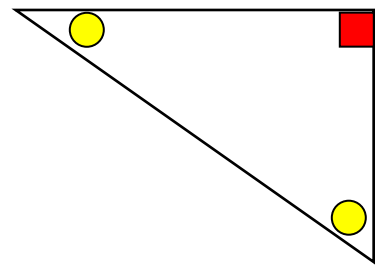
Numbers that have exactly 2 factors (1 and themselves) are called prime numbers. Highlight all the prime numbers in the table.

INEQUALITIES SHEET 4:1 ANSWERS

1)	4×3	>	$2 + 9$	11)	$29 + 17$	<	6×8
	<u>12</u>		<u>11</u>		<u>46</u>		<u>48</u>
2)	$30 - 17$	<	2×7	12)	$28 \div 4$	=	$\frac{1}{2}$ of 14
	<u>13</u>		<u>14</u>		<u>7</u>		<u>7</u>
3)	$\frac{1}{2}$ of 30	=	5×3	13)	40×3	=	$200 - 80$
	<u>15</u>		<u>15</u>		<u>120</u>		<u>120</u>
4)	30×4	<	$200 - 50$	14)	4×90	>	30×10
	<u>120</u>		<u>150</u>		<u>360</u>		<u>300</u>
5)	5×9	>	$17 + 27$	15)	9×5	<	$100 - 45$
	<u>45</u>		<u>44</u>		<u>45</u>		<u>55</u>
6)	$18 \div 6$	>	$21 - 19$	16)	60×7	>	$500 - 90$
	<u>3</u>		<u>2</u>		<u>420</u>		<u>410</u>
7)	3×9	<	$100 - 72$	17)	37×10	<	$600 - 220$
	<u>27</u>		<u>28</u>		<u>370</u>		<u>380</u>
8)	7×6	<	$37 + 14$	18)	$\frac{1}{2}$ of 280	=	7×20
	<u>42</u>		<u>51</u>		<u>140</u>		<u>140</u>
9)	$90 - 67$	<	6×4	19)	30×8	>	10×23
	<u>23</u>		<u>24</u>		<u>240</u>		<u>230</u>
10)	$\frac{1}{2}$ of 38	<	3×7	20)	7×9	<	$38 + 37$
	<u>19</u>		<u>21</u>		<u>63</u>		<u>75</u>

TRIANGLE CLASSIFICATION 1

ACUTE, OBTUSE OR RIGHT? ANSWERS

<p>1)</p>  <p>Type: Right</p>	<p>2)</p>  <p>Type: Acute</p>	<p>3)</p>  <p>Type: Obtuse</p>
<p>4)</p>  <p>Type: Acute</p>	<p>5)</p>  <p>Type: Obtuse</p>	<p>6)</p>  <p>Type: Right</p>

MULTIPLICATION: 2-DIGITS BY 2-DIGITS SHEET 1 ANSWERS

$$\begin{array}{r} 1) \quad 27 \\ \times 16 \\ \hline 432 \end{array}$$

$$\begin{array}{r} 2) \quad 45 \\ \times 12 \\ \hline 540 \end{array}$$

$$\begin{array}{r} 3) \quad 35 \\ \times 18 \\ \hline 630 \end{array}$$

$$\begin{array}{r} 4) \quad 31 \\ \times 23 \\ \hline 713 \end{array}$$

$$\begin{array}{r} 5) \quad 35 \\ \times 21 \\ \hline 735 \end{array}$$

$$\begin{array}{r} 6) \quad 56 \\ \times 14 \\ \hline 784 \end{array}$$

$$\begin{array}{r} 7) \quad 31 \\ \times 18 \\ \hline 558 \end{array}$$

$$\begin{array}{r} 8) \quad 56 \\ \times 15 \\ \hline 840 \end{array}$$

$$\begin{array}{r} 9) \quad 39 \\ \times 24 \\ \hline 936 \end{array}$$

$$\begin{array}{r} 10) \quad 17 \\ \times 32 \\ \hline 544 \end{array}$$

$$\begin{array}{r} 11) \quad 24 \\ \times 33 \\ \hline 792 \end{array}$$

$$\begin{array}{r} 12) \quad 33 \\ \times 25 \\ \hline 825 \end{array}$$

QUADRA'S OPERATION PUZZLE 4 ANSWERS

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

$$\boxed{10} \quad \div \quad \boxed{2} \quad + \quad \boxed{3} \quad = \quad \boxed{8}$$

$$\boxed{5} \quad \times \quad \boxed{4} \quad = \quad \boxed{2} \quad \times \quad \boxed{10}$$

$$\boxed{10} \quad - \quad \boxed{6} \quad = \quad \boxed{20} \quad \div \quad \boxed{5}$$

$$\boxed{8} \quad = \quad \boxed{6} \quad - \quad \boxed{2} \quad + \quad \boxed{4}$$

$$\boxed{9} \quad - \quad \boxed{7} \quad = \quad \boxed{12} \quad \div \quad \boxed{6}$$

$$\boxed{9} \quad + \quad \boxed{7} \quad = \quad \boxed{4} \quad \times \quad \boxed{4}$$

$$\boxed{3} \quad \times \quad \boxed{4} \quad = \quad \boxed{20} \quad - \quad \boxed{8}$$

$$\boxed{11} \quad = \quad \boxed{2} \quad \times \quad \boxed{5} \quad + \quad \boxed{1}$$

$$\boxed{24} \quad \div \quad \boxed{3} \quad + \quad \boxed{2} \quad = \quad \boxed{10}$$

$$\boxed{5} \quad = \quad \boxed{28} \quad \div \quad \boxed{4} \quad - \quad \boxed{2}$$

COLUMN ADDITION 5 DIGITS SHEET 1 ANSWERS

$$\begin{array}{r} 1) \quad 4 \ 2 \ 1 \ 5 \ 3 \\ + \ 5 \ 0 \ 2 \ 4 \ 7 \\ \hline 9 \ 2 \ 4 \ 0 \ 0 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 2 \ 6 \ 1 \ 4 \ 8 \\ + \ 6 \ 2 \ 7 \ 8 \ 5 \\ \hline 8 \ 8 \ 9 \ 3 \ 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 7 \ 0 \ 2 \ 1 \ 3 \\ + \ 1 \ 4 \ 2 \ 7 \ 8 \\ \hline 8 \ 4 \ 4 \ 9 \ 1 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 7 \ 2 \ 1 \ 5 \ 6 \\ + \ 5 \ 6 \ 2 \ 5 \ 7 \\ \hline 1 \ 2 \ 8 \ 4 \ 1 \ 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 2 \ 1 \ 4 \ 2 \ 4 \\ + \ 6 \ 0 \ 3 \ 1 \ 6 \\ \hline 8 \ 1 \ 7 \ 4 \ 0 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 3 \ 0 \ 8 \ 5 \ 2 \\ + \ 8 \ 5 \ 1 \ 3 \ 9 \\ \hline 1 \ 1 \ 5 \ 9 \ 9 \ 1 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 8 \ 9 \ 0 \ 1 \ 5 \\ + \ 4 \ 6 \ 2 \ 7 \\ \hline 9 \ 3 \ 6 \ 4 \ 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 5 \ 2 \ 6 \ 7 \ 1 \\ + \ 1 \ 4 \ 7 \ 6 \ 7 \\ \hline 6 \ 7 \ 4 \ 3 \ 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 7 \ 8 \ 5 \ 4 \ 5 \\ + \ 3 \ 0 \ 2 \ 1 \ 6 \\ \hline 1 \ 0 \ 8 \ 7 \ 6 \ 1 \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 2 \ 1 \ 4 \ 5 \ 2 \\ + \ 1 \ 3 \ 2 \ 5 \ 5 \\ + \ 4 \ 2 \ 6 \ 1 \\ \hline 3 \ 8 \ 9 \ 6 \ 8 \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad 6 \ 7 \ 0 \ 1 \ 4 \\ + \ 3 \ 0 \ 5 \ 2 \ 6 \\ + \ 1 \ 1 \ 6 \ 7 \ 5 \\ \hline 1 \ 0 \ 9 \ 2 \ 1 \ 5 \\ \hline \end{array}$$

$$\begin{array}{r} 12) \quad 5 \ 8 \ 1 \ 2 \ 5 \\ + \ 2 \ 6 \ 7 \ 5 \ 2 \\ + \ 5 \ 7 \ 8 \ 4 \\ \hline 9 \ 0 \ 6 \ 6 \ 1 \\ \hline \end{array}$$

$$\begin{array}{r} 13) \quad 4 \ 6 \ 2 \ 1 \ 3 \\ + \ 2 \ 4 \ 7 \ 7 \\ + \ 1 \ 0 \ 4 \ 9 \ 2 \\ \hline 5 \ 9 \ 1 \ 8 \ 2 \\ \hline \end{array}$$

$$\begin{array}{r} 14) \quad 1 \ 8 \ 9 \ 2 \ 5 \\ + \ 3 \ 2 \ 1 \ 4 \ 7 \\ + \ 7 \ 6 \ 8 \ 0 \\ \hline 5 \ 8 \ 7 \ 5 \ 2 \\ \hline \end{array}$$

$$\begin{array}{r} 15) \quad 3 \ 2 \ 7 \ 6 \ 8 \\ + \ 4 \ 6 \ 2 \ 8 \\ + \ 1 \ 5 \ 2 \ 7 \ 3 \\ \hline 5 \ 2 \ 6 \ 6 \ 9 \\ \hline \end{array}$$

DIVISION – 4 DIGITS BY 1 DIGIT SHEET 2 ANSWERS

$$1) \quad 7 \overline{) 3825} \quad \begin{array}{r} 546 \text{ r}3 \end{array}$$

$$2) \quad 9 \overline{) 4526} \quad \begin{array}{r} 502 \text{ r}8 \end{array}$$

$$3) \quad 6 \overline{) 7021} \quad \begin{array}{r} 1170 \text{ r}1 \end{array}$$

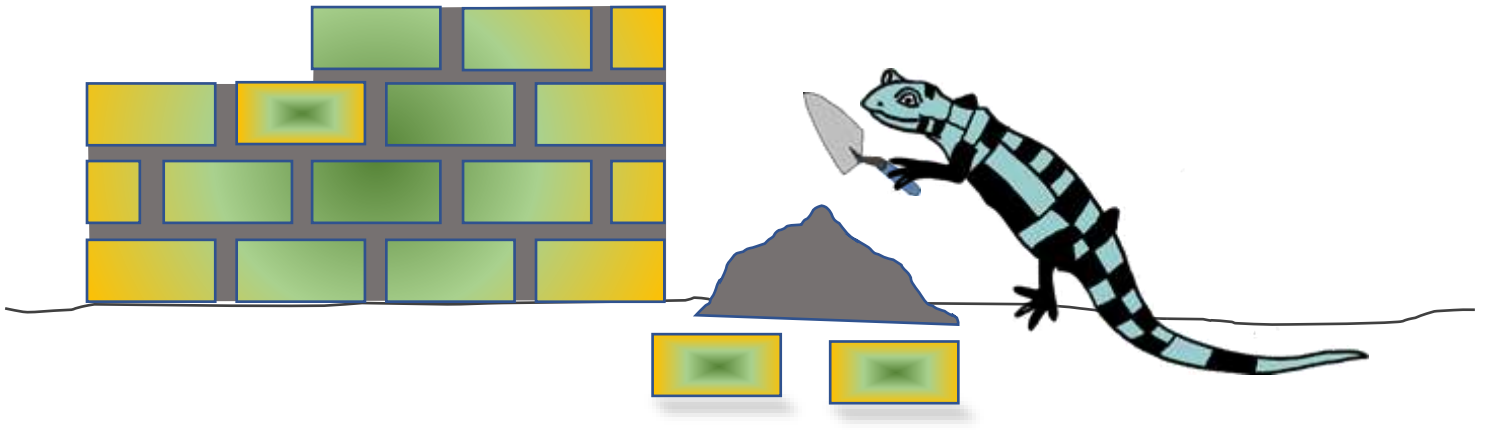
$$4) \quad 5 \overline{) 7945} \quad \begin{array}{r} 1589 \end{array}$$

$$5) \quad 4 \overline{) 6713} \quad \begin{array}{r} 1678 \text{ r}1 \end{array}$$

$$6) \quad 2 \overline{) 9786} \quad \begin{array}{r} 4893 \end{array}$$

FRAZER'S WALL CHALLENGE 1 ANSWERS

Frazer spent 5 days building a wall with 100 bricks in.



He got better each day and managed to lay **4 more bricks** than the previous day.

How many bricks did he lay each day?

Day 1:	Day 2:	Day 3:	Day 4:	Day 5:
12 bricks	16 bricks	20 bricks	24 bricks	28 bricks

What if the brick wall had 200 bricks? How would your answers change?

Day 1:	Day 2:	Day 3:	Day 4:	Day 5:
32 bricks	36 bricks	40 bricks	44 bricks	48 bricks

Each day would have 20 more bricks than for the previous answer, since $20 \times 5 = 100$ (and we need 100 more bricks).

FRACTIONS OF NUMBERS SHEET 3 ANSWERS

$$1) \frac{1}{3} \text{ of } 24 = 24 \div 3 = 8$$

$$3) \frac{1}{6} \text{ of } 18 = 18 \div 6 = 3$$

$$5) \frac{1}{5} \text{ of } 40 = 40 \div 5 = 8$$

$$7) \frac{1}{10} \text{ of } 50 = 50 \div 10 = 5$$

$$9) \frac{1}{8} \text{ of } 40 = 40 \div 8 = 5$$

$$11) \frac{1}{4} \text{ of } 32 = 32 \div 4 = 8$$

$$13) \frac{1}{9} \text{ of } 36 = 36 \div 9 = 4$$

$$15) \frac{1}{8} \text{ of } 56 = 56 \div 8 = 7$$

$$17) \frac{3}{4} \text{ of } 24 = (24 \div 4) \times 3 = 18$$

$$19) \frac{2}{7} \text{ of } 28 = (28 \div 7) \times 2 = 8$$

$$21) \frac{5}{6} \text{ of } 30 = (30 \div 6) \times 5 = 25$$

$$23) \frac{6}{7} \text{ of } 35 = (35 \div 7) \times 6 = 30$$

$$2) \frac{2}{3} \text{ of } 24 = (24 \div 3) \times 2 = 16$$

$$4) \frac{2}{6} \text{ of } 18 = (18 \div 6) \times 2 = 6$$

$$6) \frac{3}{5} \text{ of } 40 = (40 \div 5) \times 3 = 24$$

$$8) \frac{7}{10} \text{ of } 50 = (50 \div 10) \times 7 = 35$$

$$10) \frac{3}{8} \text{ of } 40 = (40 \div 8) \times 3 = 15$$

$$12) \frac{3}{4} \text{ of } 32 = (32 \div 4) \times 3 = 24$$

$$14) \frac{5}{9} \text{ of } 36 = (36 \div 9) \times 5 = 20$$

$$16) \frac{7}{8} \text{ of } 56 = (56 \div 8) \times 7 = 49$$

$$18) \frac{3}{5} \text{ of } 15 = (15 \div 5) \times 3 = 9$$

$$20) \frac{3}{8} \text{ of } 32 = (32 \div 8) \times 3 = 12$$

$$22) \frac{4}{5} \text{ of } 50 = (50 \div 5) \times 4 = 40$$

$$24) \frac{7}{9} \text{ of } 18 = (18 \div 9) \times 7 = 14$$

CALCULATOR CHALLENGES

$$1) \frac{3}{5} \text{ of } 135 = (135 \div 5) \times 3 = 81$$

$$3) \frac{2}{7} \text{ of } 294 = (294 \div 7) \times 2 = 84$$

$$2) \frac{3}{4} \text{ of } 216 = (216 \div 4) \times 3 = 162$$

$$4) \frac{5}{8} \text{ of } 352 = (352 \div 8) \times 5 = 220$$

BAR GRAPHS SHEET 4A – WINGSPANS ANSWERS

Here are the wingspans of some of the biggest birds in the world.

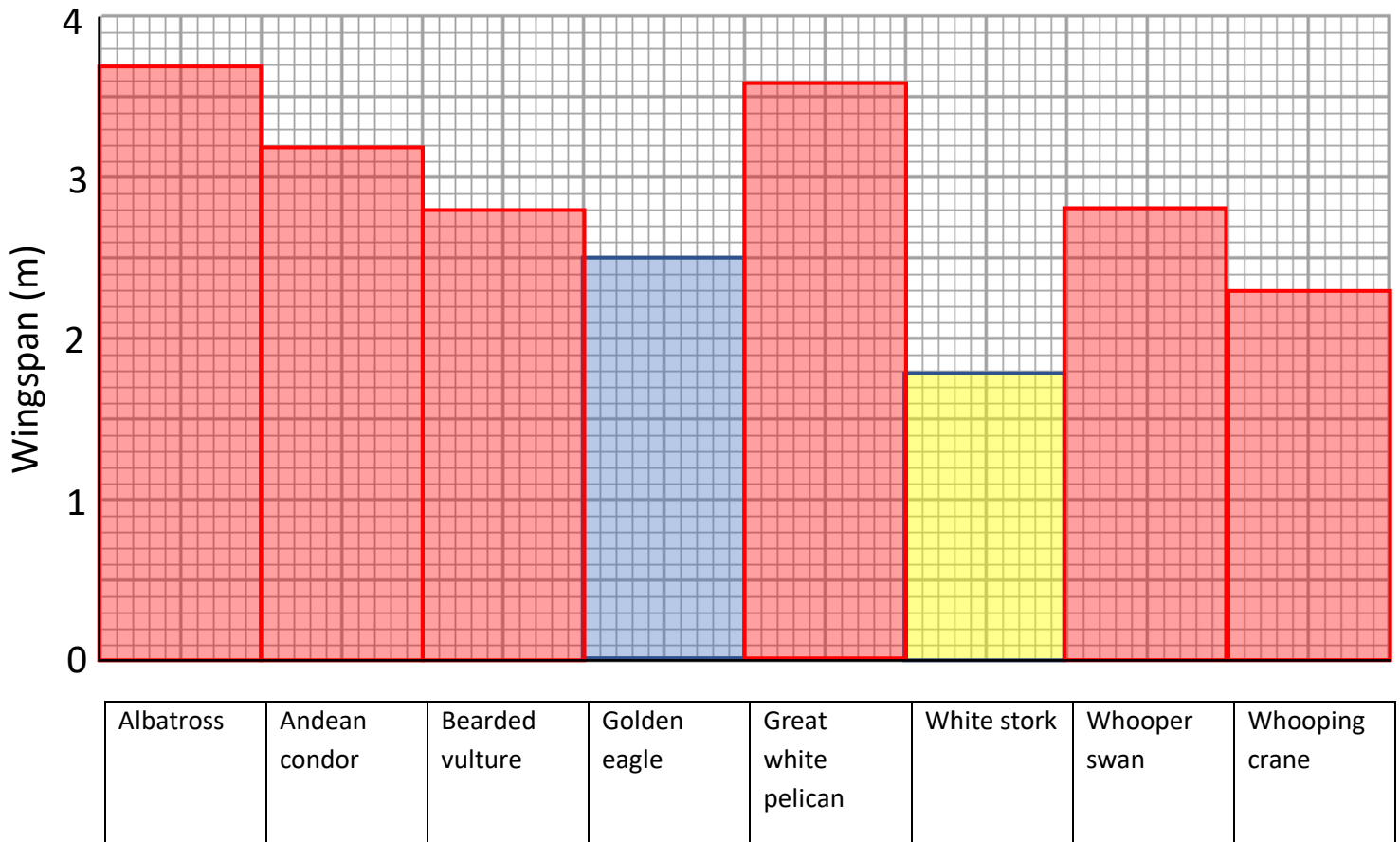
Bird	Wingspan (m)
Albatross	3.7
Andean condor	3.2
Bearded vulture	2.8
Golden eagle	2.5
Great white pelican	3.6
White stork	1.8
Whooper swan	2.8
Whooping crane	2.3

1) Complete the bar graph for the birds.

2) Fill in the table for the wingspan of the golden eagle and the white stork.

3) How much longer is the wingspan of the albatross than the whooper swan?

0.9m (or 90cm)



4) Which bird has a wingspan which is 90cm more than the whooping crane?

The Andean Condor

5) What is the difference between the longest and shortest wingspan? 1.9m

NUMBER FILL IN PUZZLE 5 ANSWERS

1	3	2				9			4				
		1	0	5	2	6			7	2	1	0	
		4				2	9	5	1		3		
	5	6	7	3		8		0			6		
	9							7			4	5	7
6	4	3	2	5		8	3	4					2
	2			7						1	6	7	9
	3			8	4	1	6				3		
				0		9					4		6
	6	2	1	9		5	7	8	7	3	1		4
	8						4				0		7
1	7	5	3	8		1	8	7	5				9
	4		4				2		5	9	2	4	8
			9	1	6	8			1				2

3 DIGITS		4 DIGITS			5 DIGITS		6 DIGITS
132	471	1364	5074	7482	10526	59423	578731
195	551	1679	5673	7729	17538	63410	647982
349	729	1875	6219	8416	57809	64325	
457	834	2146	6874	9168	59248		
		2951	7210	9628			