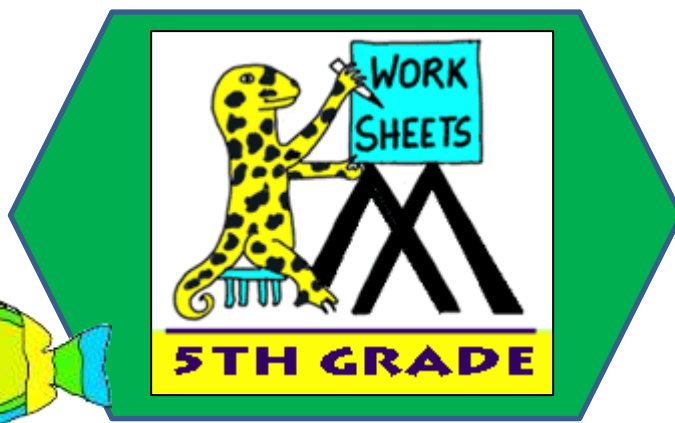
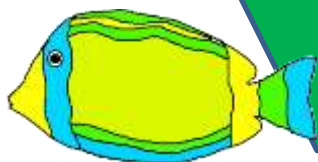
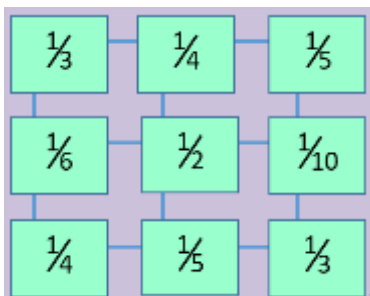


MATH SALAMANDERS

5TH GRADE GRAB PACK 6

This pack is a selection of 10 Math sheets and one game designed especially for fifth graders. We have taken all the sheets from our 5th grade area on our site.



In the pack is a range of number sheets, coloring pages, and puzzles.

There is also an answer pack which you can download separately.

CONTENTS			
1	Place Value to 1 million Sheet 2	7	Angles in a Quadrilateral 1
2	Using Parentheses 5:1	8	Total Product Puzzle 4B
3	Captain's Square Puzzle 5	9	Birthday Bonanza
4	Fraction Riddles 5A	10	Mental Math Quiz 5:6
5	Finding Simple Percentages 2	11	Unit Fraction Cover Up Game
6	Share the Treasure 5		

Please give us feedback on our packs – both what you liked and what sheets you would like to see more of by leaving a comment on the link below.

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



PLACE VALUE TO 1 MILLION SHEET 2

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, <u>7</u> 16

7 <u>6</u> 1,489	<u>4</u> 12,685	4 <u>9</u> ,321	3 <u>8</u> 5,029	<u>6</u> 37,958

2) Write these numbers in expanded form.

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

$$137,295 =$$

$$67,329 =$$

$$894,326 =$$

3) Write these numbers in standard form.

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

$$80,000 + 4,000 + 900 + 10 + 6 =$$

$$200,000 + 90,000 + 5,000 + 200 + 30 + 8 =$$

$$800,000 + 7,000 + 300 + 50 + 6 =$$

$$500,000 + 30,000 + 800 + 40 + 2 =$$

4) Fill in the missing parts in these numbers

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

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

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

USING PARENTHESES SHEET 5:1

When you come across a complex calculation where there are brackets around part of the calculation, the part in brackets should be done first.

Example

$(4 + 3) \times 6$ and $4 + (3 \times 6)$ are two different calculations with two different answers:

$$(4 + 3) \times 6 = 7 \times 6 = 42$$

$$4 + (3 \times 6) = 4 + 18 = 22$$

Work out the answers to these complex calculations.

1) $3 + (4 \times 5) = 3 + \underline{\quad} = \underline{\quad}$

2) $(5 + 4) \times 3 = \underline{\quad} \times 3 = \underline{\quad}$

3) $7 \times (5 - 2) = 7 \times \underline{\quad} = \underline{\quad}$

4) $(9 - 6) \times 8 = \underline{\quad} \times 8 = \underline{\quad}$

5) $(20 \div 4) + 8 = \underline{\quad} + 8 = \underline{\quad}$

6) $17 - (35 \div 5) = 17 - \underline{\quad} = \underline{\quad}$

7) $(7 \times 3) - (2 \times 4) = \underline{\quad} - \underline{\quad} = \underline{\quad}$

8) $14 - (3 \times 5) = \underline{\quad} - \underline{\quad} = \underline{\quad}$

9) $(40 \div 5) + (3 \times 9) = \underline{\quad} + \underline{\quad} = \underline{\quad}$

10) $(7 - 4) \times 12 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

Harder section - you may need a calculator for these!

11) $2.5 - (0.7 \times 2) = \underline{\quad} - \underline{\quad} = \underline{\quad}$

12) $(4.5 \times 3) - 12 = \underline{\quad} - \underline{\quad} = \underline{\quad}$

13) $6 - (1.7 \times 3) = \underline{\quad} - \underline{\quad} = \underline{\quad}$

14) $(4.2 \div 6) + 0.9 = \underline{\quad} + \underline{\quad} = \underline{\quad}$

15) $200 - (14.5 \times 6) = \underline{\quad} - \underline{\quad} = \underline{\quad}$

16) $78 \div (3.75 \times 8) = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

Work out these 3 calculations, then put them in order, smallest first:

$$85 - (17 \times 3)$$

$$200 \div (3.7 + 6.3)$$

$$(4.5 \times 3) + (30 \div 4)$$

Smallest

















Largest



CAPTAIN'S SQUARE PUZZLE 5

Each salamander is worth a different value between 0.1 and 0.9.

The total of each vertical line of salamanders is worked out for you.

$= 2.4$

$= 2.3$

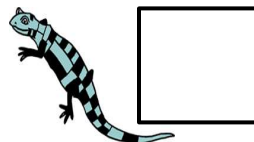
$= 2$

$= 1.9$

How much is each salamander worth?











FRACTION RIDDLES 5A

Use the clues to find the correct fraction from the 8 possibilities.

CHALLENGE 1

- I am greater than 1.
- I am less than 2.
- I am an improper fraction.
- I am closer to 2 than to 1.

Who am I? _____

A $\frac{8}{6}$	B $1\frac{2}{3}$	C $\frac{9}{2}$	D $\frac{7}{4}$
E $\frac{3}{9}$	F $2\frac{3}{8}$	G $\frac{8}{10}$	H $1\frac{4}{5}$

CHALLENGE 2

- I am more than a half but less than 6 halves.
- If you round me to the nearest whole, you get 2.
- I am not an improper fraction.
- I am a third away from being a whole number.

Who am I? _____



FIND SIMPLE PERCENTAGES SHEET 2

Find these percentages of numbers.

A) 50% and 100%

- | | | |
|------------------|-------------------|------------------|
| 1) 50% of 28 = | 2) 100% of 326 = | 3) 50% of 76 = |
| 4) 100% of 78 = | 5) 50% of 126 = | 6) 100% of 3.6 = |
| 7) 50% of 13 = | 8) 50% of 460 = | 9) 100% of 417 = |
| 10) 50% of 134 = | 11) 100% of 1.8 = | 12) 50% of 580 = |

B) 1% and 10%

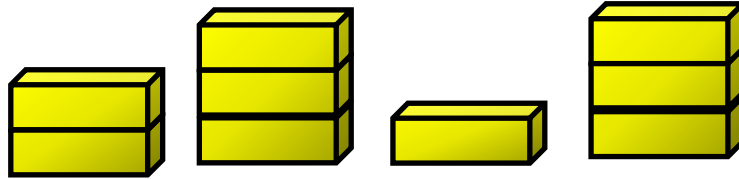
- | | | |
|----------------|-----------------|-----------------|
| 1) 10% of 37 = | 2) 1% of 625 = | 3) 10% of 83 = |
| 4) 1% of 86 = | 5) 10% of 327 = | 6) 1% of 180 = |
| 7) 1% of 835 = | 8) 10% of 690 = | 9) 10% of 6 = |
| 10) 1% of 38 = | 11) 10% of 42 = | 12) 1% of 429 = |

C) 1%, 10%, 50% and 100%

- | | | |
|------------------|------------------|------------------|
| 1) 50% of 34 = | 2) 100% of 6.4 = | 3) 10% of 62 = |
| 4) 1% of 321 = | 5) 10% of 585 = | 6) 50% of 8.6 = |
| 7) 50% of 158 = | 8) 1% of 609 = | 9) 50% of 624 = |
| 10) 100% of 57 = | 11) 50% of 19 = | 12) 1% of 530 = |
| 13) 50% of 630 = | 14) 1% of 483 = | 15) 10% of 371 = |

SHARE THE TREASURE 5

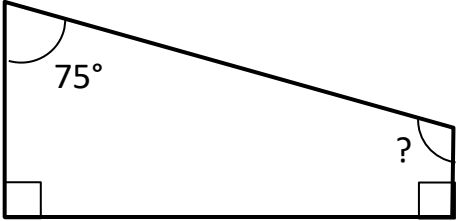
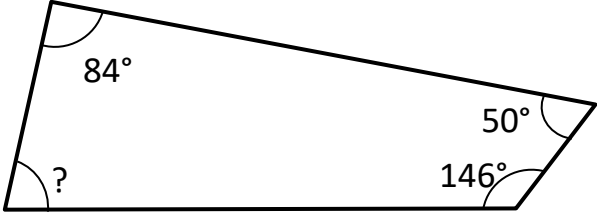
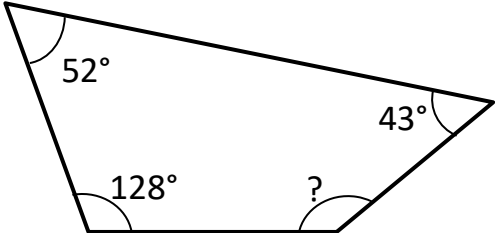
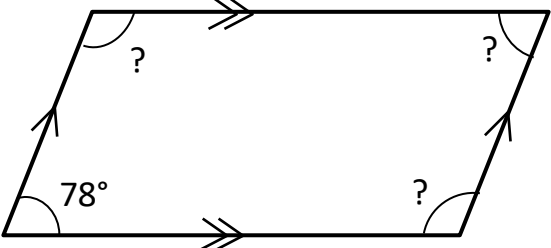

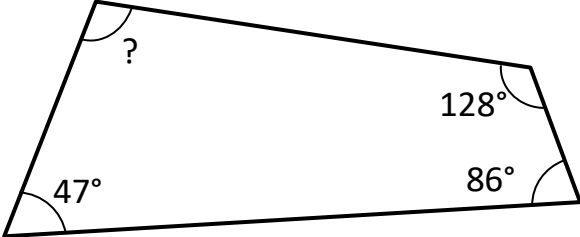
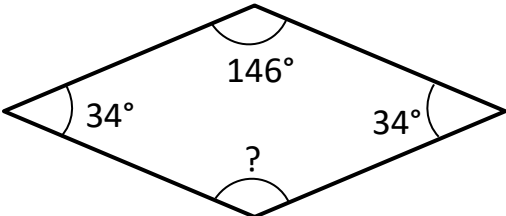
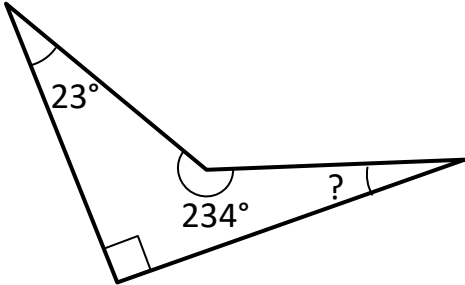
- Captain Salamander and his crew have found some bars of gold.
- The captain decides that he is going to share all the treasure out.
- He puts $\frac{1}{4}$ of the treasure to aside for himself.
- He gives $\frac{1}{2}$ of what is left to his friend Bill.
- He shares $\frac{2}{3}$ of the remaining treasure equally between the rest of the crew.
- He buries the remaining 3 bars on a secret island.
- How many bars did the pirates have?
- *Hint: using fraction strips might help you to solve this problem!*



ANGLES IN A QUADRILATERAL 1

Remember that the angles in a quadrilateral add up to 360° . The angles are not drawn to scale, so do not try to measure them!

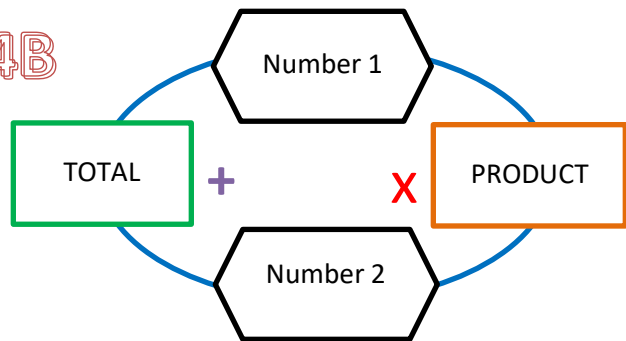
Find the value of each angle marked with a “?”

<p>1)</p> 	<p>2)</p> 
<p>3)</p> 	<p>4)</p> 
<p>5)</p> 	<p>6)</p> 
<p>7) A rhombus</p> 	<p>8)</p> 

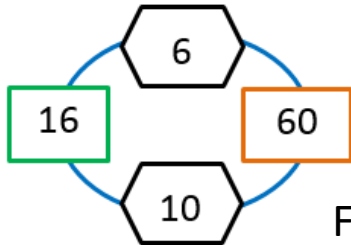


TOTAL PRODUCT PUZZLE 4B

This is how the puzzle works!



Example



Fill in the missing numbers in the puzzles below!

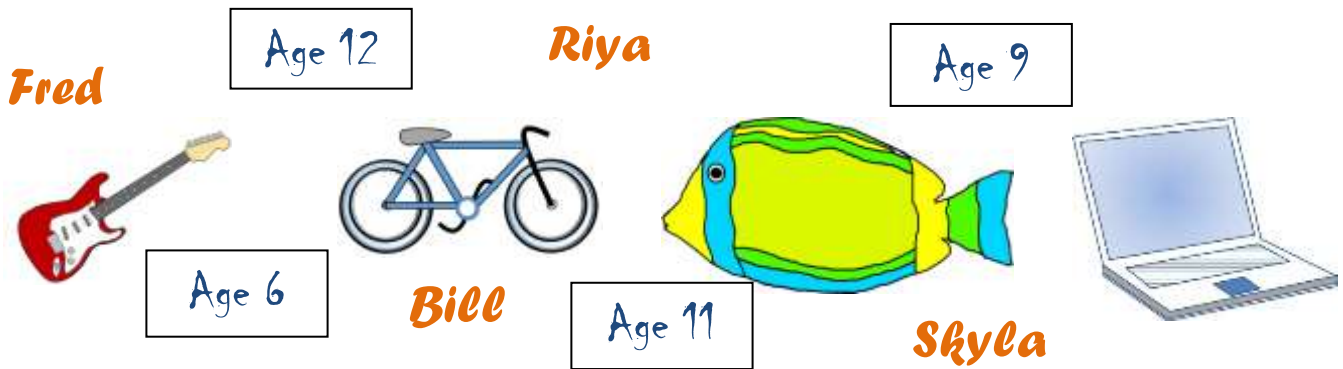


BIRTHDAY BONANZA

Fred, Bill, Skyla and Riya all have birthdays this month.

Their ages will be 6, 9, 11 and 12.

The presents they received are: a guitar, a bike, an aquarium and a laptop.

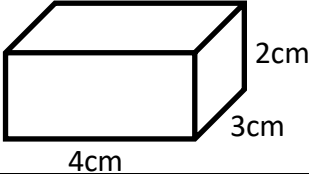
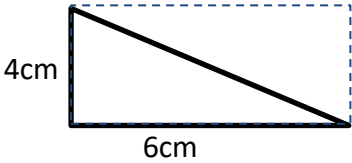


Use the clues below to find out who got what, and how old they were.

- 1) Riya, who is the second oldest, did not get a guitar.
- 2) The person who got the aquarium was the youngest person who is not Skyla.
- 3) The bike was given to an 11 year-old.
- 4) The laptop was given to the oldest person who is not Fred.
- 5) Skyla is not the oldest girl.

PERSON	AGE	PRESENT

MENTAL MATH QUIZ 5:6

1)	$3\frac{2}{5} + 5\frac{1}{5}$	
2)	What is 50% of \$48?	
3)	Write down all the factors of 45. ___ ___ ___ ___ ___	
4)	What is the volume of this cuboid? 	
5)	Convert 37% into a fraction.	
6)	Write $3\frac{4}{5}$ as an improper fraction.	
7)	What is the area of this triangle? 	
8)	Round 6257.5 to the nearest 10	
9)	Find the value of x if $3x + 1 = 16$.	
10)	The flight time from Boston to London is 6 hours 20 minutes. I arrive in London at 4:25pm. What time did I set off from Boston?	
11)	Find the mode of 4, 6, 2, 5, 3, 4, 2, 6, 1, 7, 4, 3, and 8.	
12)	A bag contains 5 blue beads and 3 yellow beads. I pull a bead at random out from the bag. What is the probability it is yellow?	
13)	Write $\frac{12}{36}$ in its simplest form.	
14)	Quadra gets \$120 for her birthday. She spends $\frac{3}{4}$ and saves the rest. How much money does she save?	
15)	If $x = 7$, work out the value of $x^2 - 5$.	
16)	If 1kg of rice costs \$1.20, how much does 500g cost?	
17)	How many vertices does a hexagonal pyramid have?	
18)	Convert 0.7 into a percentage.	



UNIT FRACTION COVER UP

Unit Fraction Cover Up is a fraction game designed to help with finding unit fractions of numbers. A unit fraction is a fraction where the numerator is 1.

Grade: 4th Grade and up

Number of players: 2-3

Learning: unit fractions of numbers, strategy and logical thinking

You will need

- Each player will need 15-20 counters of their own color.
- calculator (optional)
- 2 smaller different counters for the top two grids.



Instructions

- At the start of the game, the two smaller counters are placed in the center of each of the mini grids at the top; one counter on $\frac{1}{2}$ and one counter on number 15.
- The first player to start can move each of the smaller counters along the lines one space, either horizontally or vertically. The first player then works out the fraction of the number they have made. Example: if player 1 moves the first counter to $\frac{1}{10}$ and the second counter to number 20, then they must find $\frac{1}{10}$ of 20. If the first player gets the answer correct, they may place one of their counters anywhere on the board to cover up that answer.
- The second player now moves each of the mini-counters one place along the lines to a new fraction and a new number. The second player then finds the new fraction of this number. If they are correct, they may place one of their counters anywhere on the board to cover up that answer.
- Play continues until a player manages to cover up 4 counters in a row. If playing a 3-player game, then only 3 counters in a row are needed.
- If a player cannot go, or gets an answer wrong, then play passes to the next player.
- The first player that covers up 4 in a row (horizontally, vertically or diagonally) is the winner! If playing a three-player game, then 3 counters in a row are needed to win.

Variations

- Optional rule – a player can check another player's product using a calculator and dividing the number by the denominator.
- Play the game for a set amount of time. Each time a player makes **3** counters in a row, they may remove one of their opponent's counters from the board. The winner is the player with the most counters on the board at the end of the time.

UNIT FRACTION COVER UP

$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{5}$		10	12	30
$\frac{1}{6}$	$\frac{1}{2}$	$\frac{1}{10}$	of	24	15	36
$\frac{1}{4}$	$\frac{1}{5}$	$\frac{1}{3}$		18	20	45

2	10	6	5	3	8
4	5	3	6	15	12
6	1	20	4	2	5
9	3	5	12	6	4
2	6	4	10	9	3
5	18	15	6	2	10



$\frac{1}{3}$ of 12

4?



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