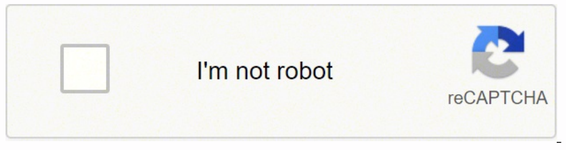

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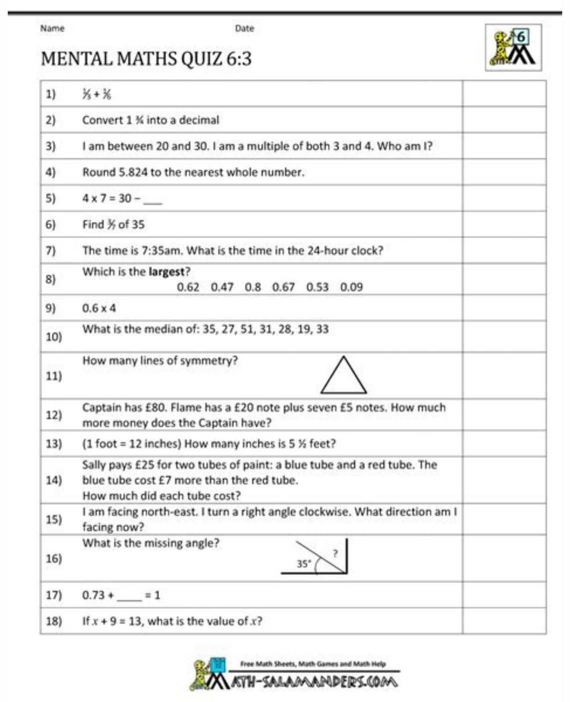
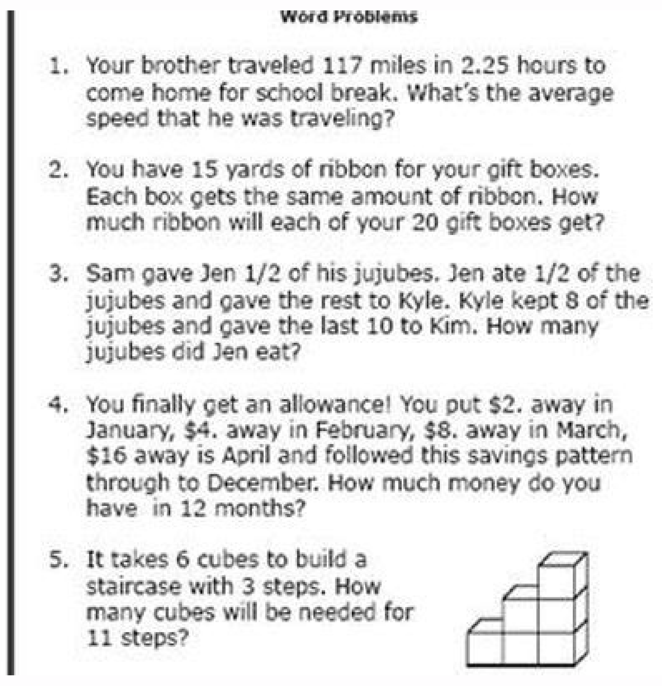


Name Date

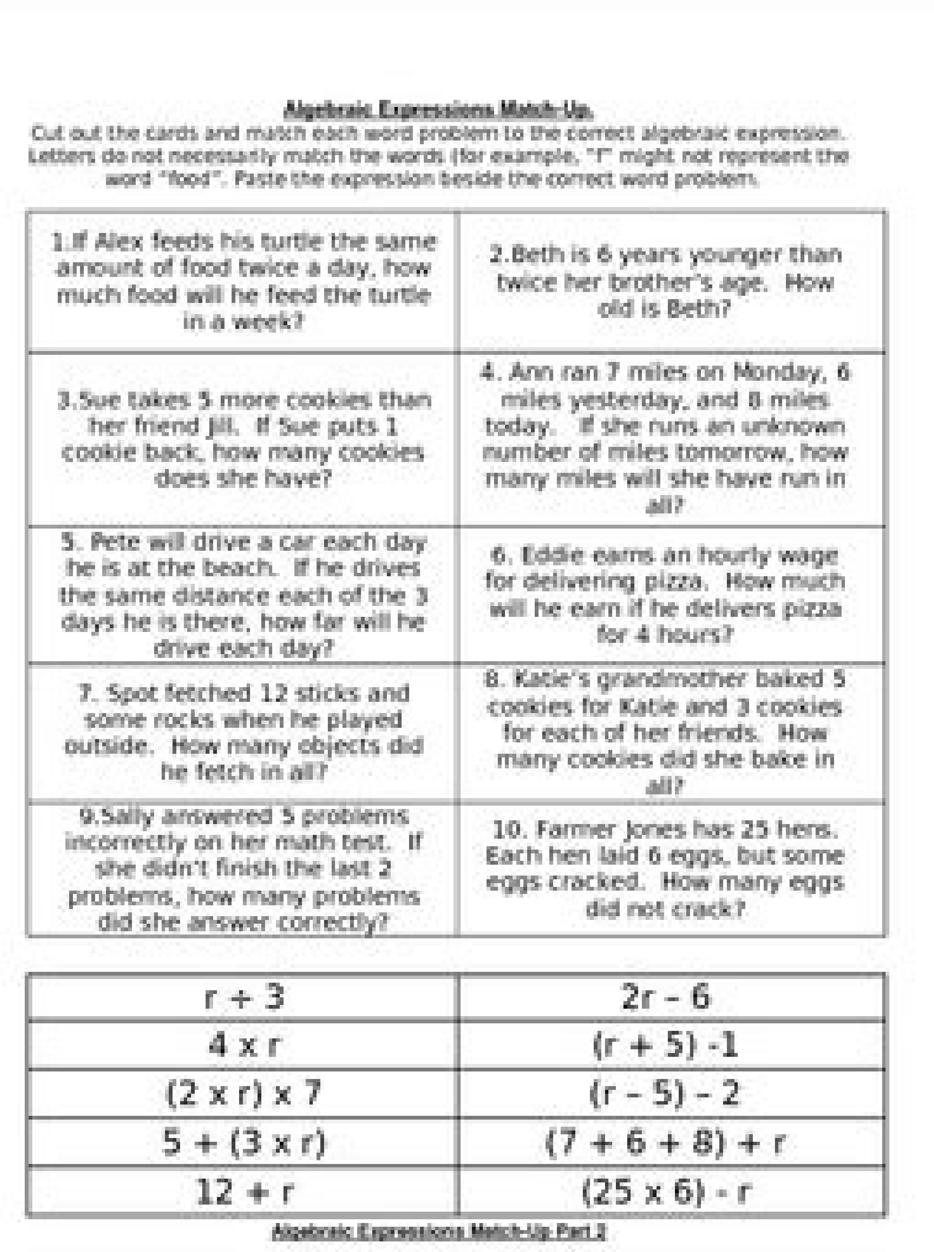
MENTAL MATHS QUIZ 6:3

1)	½ + ¼	
2)	Convert 1 ½ into a decimal	
3)	I am between 20 and 30. I am a multiple of both 3 and 4. Who am I?	
4)	Round 5.824 to the nearest whole number.	
5)	4 x 7 = 30 − ___	
6)	Find ⅕ of 35	
7)	The time is 7:35am. What is the time in the 24-hour clock?	
8)	Which is the **largest**? 0.62 0.47 0.8 0.67 0.53 0.09	
9)	0.6 x 4	
10)	What is the median of: 35, 27, 51, 31, 28, 19, 33	
11)	How many lines of symmetry?	
12)	Captain has £80. Flame has a £20 note plus seven £5 notes. How much more money does the Captain have?	
13)	(1 foot = 12 inches) How many inches is 5 ½ feet?	
14)	Sally pays £25 for two tubes of paint: a blue tube and a red tube. The blue tube cost £7 more than the red tube. How much did each tube cost?	
15)	I am facing north-east. I turn a right angle clockwise. What direction am I facing now?	
16)	What is the missing angle?	
17)	0.73 + ___ = 1	
18)	If z + 9 = 13, what is the value of z?	



Word Problems

1. Your brother traveled 117 miles in 2.25 hours to come home for school break. What's the average speed that he was traveling?
2. You have 15 yards of ribbon for your gift boxes. Each box gets the same amount of ribbon. How much ribbon will each of your 20 gift boxes get?
3. Sam gave Jen 1/2 of his jujubes. Jen ate 1/2 of the jujubes and gave the rest to Kyle. Kyle kept 8 of the jujubes and gave the last 10 to Kim. How many jujubes did Jen eat?
4. You finally get an allowance! You put $2. away in January, $4. away in February, $8. away in March, $16 away is April and followed this savings pattern through to December. How much money do you have in 12 months?
5. It takes 6 cubes to build a staircase with 3 steps. How many cubes will be needed for 11 steps?



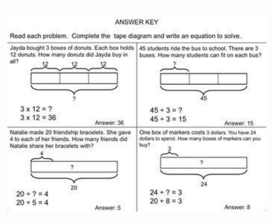
Algebraic Expressions Match-Up

Cut out the cards and match each word problem to the correct algebraic expression. Letters do not necessarily match the words (for example, "f" might not represent the word "food". Paste the expression beside the correct word problem.

1.If Alex feeds his turtle the same amount of food twice a day, how much food will he feed the turtle in a week?	2.Beth is 6 years younger than twice her brother's age. How old is Beth?
3.Sue takes 5 more cookies than her friend Jill. If Sue puts 1 cookie back, how many cookies does she have?	4. Ann ran 7 miles on Monday, 6 miles yesterday, and 8 miles today. If she runs an unknown number of miles tomorrow, how many miles will she have run in all?
5. Pete will drive a car each day he is at the beach. If he drives the same distance each of the 3 days he is there, how far will he drive each day?	6. Eddie earns an hourly wage for delivering pizza. How much will he earn if he delivers pizza for 4 hours?
7. Spot fetched 12 sticks and some rocks when he played outside. How many objects did he fetch in all?	8. Katie's grandmother baked 5 cookies for Katie and 3 cookies for each of her friends. How many cookies did she bake in all?
9.Sally answered 5 problems incorrectly on her math test. If she didn't finish the last 2 problems, how many problems did she answer correctly?	10. Farmer Jones has 25 hens. Each hen laid 6 eggs, but some eggs cracked. How many eggs did not crack?

r ÷ 3	2r – 6
4 x r	(r + 5) -1
(2 x r) x 7	(r – 5) – 2
5 + (3 x r)	(7 + 6 + 8) + r
12 + r	(25 x 6) - r

Algebraic Expressions Match-Up Part 2



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Also solutions and explanations are included. Which of the graphs below best represent the changes in the height of water in the tank as a function of the time? How long does it take each pump working alone to fill the tank? If the new cube has a volume of 64,000 cubic centimeters, what is the area of one face of the original cube? He then drove at the speed of 55 miles per hour for the same distance. Ball A makes 2 full rotations in 26 minutes. Jack is taller than Sarah but shorter than both Malika and Tania. Find the area of the pentagon ABNMD. Malika is shorter than tania. If the area of the new rectangle is equal to 1800 square meters, what is the area of the original rectangle? Find the circumference of a circle inscribed inside a square with a side of 20 meters. In a certain college, 40% of the senior class students are taking Physics, 30% are taking calculus and 10% are taking both. If the radius of a cylindrical container is doubled, how do you change the height of the container so that the volume will stay the same? Find the rate at which the height of the water in the water tank increases. If you're behind a web filter, please make sure that the domains *.kastatic.org and *.kasandbox.org are unblocked. Pump B can fill the same tank in 8 hours. Find the height h of water in both containers.(round your answer to the nearest tenth of a cm). Find the ratio of the boys in school A to the girls in school A. The length of the segment MN is equal to 5 cm and the triangle MNC is isosceles. What are the coordinates of its image point if it is translated 2 units up and 5 units to the left, and reflected in the x axis? A water tank, having the shape of a rectangular prism of base 100 square centimeters, is being filled at the rate of 1 liter per minute. What is the average speed for the whole trip? A six-sided die is rolled once. Find the rate at which the height of the water in the water tank increases; express your answer in millimeters per second. A water tank has the shape of a rectangular prism of base 50 cm2. The ratio of the boys in school A and the boys in school B is 2:1 and the ratio of the girls in school A and the girls in school B is 4:5. One pump fills a tank two times as fast as another pump. Find its primeter. In a group of 120 people, 90 have an age of more 30 years, and the others have an age of less than 20 years. What is the sum of the sizes of the interior angles of a polygon with 53 sides? Pump A can fill a tank of water in 5 hours. A car traveled 281 miles in 4 hours 41 minutes. The size of the perimeter of the square ABCD is equal to 100 cm. One leg of a right triangle is 18 cm and its area is 108 square cm. If the pumps work together they fill the tank in 18 minutes. Then water was poured in the right cylindrical container so that the heights of water in both containers are equal. Joe drove at the speed of 45 miles per hour for a certain distance. Water is being pumped, at a constant rate, into an underground storage tank that has the shape of a rectangular prism. Answers to the Above Questions 60 miles per hour 0.25 20 meters 1/3 (-3,-4) 300 square meters 400 square cm 3 hours and 5 minutes 10 cm per minute 12 cards at $0.25 and 8 cards at $0.15 618.75 square cm graph at the bottom left 7.2 cm graph at the bottom left After 1 hour and 31 minutes 16 students 49.5 miles per hour 1/4 of the original height 51.6 cm 9180° Natasha height (leg) = 40 feet , hypotenuse = 40 √(2) feet 20π meters ratio of the boys in school A to the girls in school A is 1:2 40 mm/second faster pump: 27 minutes, slower pump: 54 minutes More References and Links Middle School Math (Grades 6, 7, 8, 9) - Free Questions and Problems With Answers High School Math (Grades 10, 11 and 12) - Free Questions and Problems With Answers Primary Math (Grades 4 and 5) with Free Questions and Problems With Answers Home Page report this ad If 40 students are enrolled in the senior class, how many students are taking neither Physics nor calculus? Which graph best represents the changes in the distance from home as Peter was driving? This tank is being filled at the rate of 12 liters per minutes. The length of a rectangle is four times its width. What is the height (one of the legs) and the hypotenuse of an isosceles right triangle that has an area of 800 square feet? . Each dimension of a cube has been increased to twice its original size. Grade 8 math word problems with answers are presented. Peter drove at a constant speed for 2 hours. If a person is selected at random from this group, what is the probability the person's age is less than 20? What was the average speed of the car in miles per hour? Point A has the coordinates (2,2). Dany bought a total of 20 game cards some of which cost $0.25 each and some of which cost $0.15 each. How long does it take the two pumps working together to fill the tank?(round your answer to the nearest minute). Express your answer in centimeters per minute. Initially the rectangular prism on the left was full of water. If the area is 100 m2 what is the length of the rectangle? He then stopped for an hour to do some shopping and have a rest and then drove back home driving at a constant speed. Two balls A and B rotate along a circular track. If they start rotating now from the same point, when will they be at the same starting point again? What is the probability that the number rolled is an even number greater than 2? Who is the shortest? Ball B makes 5 full rotation in 35 minutes. If Dany spent $4.2 to buy these cards, how many cards of each type did he buy? If you're seeing this message, it means we're having trouble loading external resources on our website. Two different schools (A and B) have the same number of pupils. Natasha is shorter than Sarah. The length of a rectangle is increased to 2 times its original size and its width is increased to 3 times its original size.

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