5th Grade Mental Math

Multi-Step Question Bank

Money Multi-Step Questions

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| **Addition** |

* Add three quarters plus three nickels Now add one dime and then subtract two quarters
* Take the number of nickels in 2 quarters.  Add the number of pennies in a dime. (350 / 7) + 15 =
* Express one half as a decimal Add 3 wholes Subtract the value of a quarter
* How many dimes in a half dollar? Multiply by 8 how many pennies do you have?
* What is the value of one quarter, plus the value of one dime, multiplied by 5.
* What number is $2 less than $32?  If you make that amount every hour, how much do you make in 10 hours?
* If Aaron has $.75 If he loses a quarter but finds a dime and then another quarter, how much money does he have?
* Start with 50 cents, spend a dime, then spend a quarter, how much is left?
* Start with how many cents are in a dollar, divide by 4, subtract 10, multiply by 2.
* What is the value of 15 dimes and 6 pennies? Then subtract the value of 3 nickels. Then add 3 pennies.
* What is the value of 3 quarters and three pennies? Then add a dime. Then take away a 2 nickels.
* What is the value of 4 dollars, 6 dimes, and two pennies? I spend $0.50 and then find a dime on the ground. How much money do I have?
* 1 quarter, 4 dimes, and 1 penny equals how much money? How much more money do you need to have $1
* You have $2.00 You spend $1.35, how much do you have left?
* You have $300 and you share $100 with mom. You spent ½ of what’s left at the mall? How much do you have left?
* Model cars are $2.50 each. How much for 2 cars? How much for 3 cars?
* You have $8 in your bank and $12 in your pocket. How much money in all? You spend ½ of the money in your pocket. How much do you have in all now?
* 4 dimes 3 nickels 2 pennies. Add one dollar and 43 cents.  Do you have enough money to buy 4 items that are 45 cents each?
* Janet had 4 quarters.  She spent 30 cents.  How much does she have?  She needs five dollars to go to the movies, how much money does she need?
* 7 Quarters + 2 dimes =
* Multiple the number of dimes in $1.00 by 5. Subtract one quarter from that amount. Add one penny. What amount do you now have?
* You went to the store and bought milk for $3.46 and bread for $2.88. You hand the clerk $20. About how much change will you receive?
* Add the number of pennies in three quarters to the value of 2 dimes.

Time/Date Multi-Step Questions

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|  **Subtraction**  |

* Take the number of minutes in the ¼ of an hour and the number of minutes in a half hour.
* Movie starts at 8. 20 minutes to travel. When should you leave if you need to have 10 minutes to get tickets and snack?
* How many days in four weeks? Add 13. Times 10
* How many minutes in an hour and a half? Divide minutes by 3
* 1988 is a leap year, how many days does it have?  When will be the next two leap years?
* What time is 20 minutes before 5:00? What time will it be ½ hour later?
* Hours in a day + 6 x days in a week
* Days in a week + minutes in an hour + 3
* 10 less than 60 plus the number of days in a week
* How many months have you lived on your 10th birthday? How many days is this?
* It is 12:15.  What time will it be in 45 minutes? What time will it be a half hour after that?
* There are how many days in a year? Round that to the nearest hundred. Divide your answer by 4
* How many months in a year? Multiply it by the number of days in a week?
* The number of hours in a day and divide by 4 and what is 1/3 of the amount.
* Start with the number of days in January, subtract 6, multiply by 3.
* Start with how many minutes are in an hour, divide by 4, add 3, divide by 6.
* I spent 30 minutes on math, 15 minutes on spelling, and 60 minutes in art. How much time has past?
* If it is 11:20, what time will it be in 20 minutes? You have to be at lunch at 11: 50, how much time do you have remaining to get ready?
* How many hours in a day? Take that number and divide it by the number of quarter blocks in an hour. Now add 10.  What number do you have?
* How many days are in a week? Multiply that number by the number of days in a weekend. Divide by 2.   What is your number?
* What is 30 minutes after 2:30? What time will it be in 6 hours?  Now take away 2 hours and 15 minutes.  What time is it?
* What is 20 minutes after 4:45?  What time would it be 4 hours ago?  Now add a ½ hour
* How many total days are in three weeks?  Divide that number by seven and then add seven

Shape/Angles Multi-Step Questions

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| **Multiplication** |

* How many sides does an octagon have? Multiply that number by the number of sides in a triangle then take that number and subtract the number of sides in a square.
* Multiply 50 and 600 divide by the number of sides in a triangle
* Find the perimeter of a polygon if the lengths of the sides are; 5cm, 1cm, 2cm, and 4cm. Name the polygon
* Start with the number of sides on a quadrilateral, multiply that by the number of sides on a triangle, triple it.
* A pentagon has how many sides? Multiply by the number of sides in a square? Then subtract the number of sides of a triangle? How many sides to you have?
* Add the degrees of a right angle Subtract 5 12 X 10
* Subtract ½ of a right angle, Add 10
* How many sides does a rectangle have? Add the number of sides that a hexagon and a triangle have.  How many sides are there altogether?
* How many sides do 6 quadrilaterals have?
* Take the number of sides a pentagon has and multiply that number by the number of sides an octagon has.
* Take the number of sides on a triangle + number of sides on a square and multiply that sum by 8.

People/Animal Multi-Step Questions

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| **Division** |

* 4 boxes, 12 lamps in each box. How many lamps? If 19 lamps were given away, how many boxes do you have?
* 10 bikes have how many wheels? Wheels times 7.
* You share 12 pieces of gum with 2 friends, how many does each friend get? How many pieces of gum would 4 friends get?
* Start with the number of legs on a cow, multiply the number of legs on a chicken, times the number of legs on a snake.

Multi Operation Multi-Step Questions

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| **Geometry** |

* What is 20 + 11  + 2 Subtract 6 from that number and then divide your answer by 3
* (40 x 90) / 6 =
* Double 34.  Subtract 20 =
* Subtract 200 from 6000 subtract 300 divide by 11
* Add 7 to .73 Multiply by 10
* Take 300 and multiply by 50 Divide by 15
* What is 5 plus .38? Minus 5
* Round 76 to the nearest 10, multiply by 9 and then subtract a dozen.  What number do you have?
* What is triple six, divided by 3 plus 134?
* Start with 8 tens, add 4 hundreds, divide that in half.
* Start with how many minutes are in an hour, divide by 4, add 3, divide by 6.
* Estimate 31, plus 68, minus 17.
* Start with 7, triple it, double it, double again.
* Start with 7, add 4, times 5, times 2, minus 10, divided by 4.
* Start with 11, double it, add 8, divide by 2.
* 40x90 divided by 60
* 360 divided by 9 Then add 20
* 210 divided by 70 Then multiply by 90 Is your answer larger than what you started with?
* Triple 50 Double that answer Then divide by 10
* 2 X 40 Add 20 Subtract 10
* 10 X 10 Divide by 2 Subtract 25
* 85 + 15 Multiply times three Divide by 60
* What is the sum of 16 and 4? Multiply by 3 Divide by 2
* 30 more than 90 divided by 2
* 10 less than 60 divided by 2
* 60 more than  40 times 2
* Find the difference between 6 and 4. Then multiply that number by 5. Take that number and subtract 3.
* What number is 8 tens? Add 4 more tens. Take away two ones.
* 46 tens equals what? Take away 11 tens. Add 4 ones.
* What do you add to 40 to get 70? Then what do you add to that to get 50. Now subtract 7.
* What do you add to 30 to get 80? Then what do you add to that to get 90. Now take away 35.
* 40 X 500 Then divide by 2
* 50 x 800 Then add 300
* 30 x 900 Add 130
* 15 + 11 Subtract 12
* 9 x 9 + 9 Divide by 2
* Take the number of weeks in 28 days and add 10
* 120 – 30, then double that
* 20 more than 37 subtract 17
* 10 less than 60, double it
* 20 more than 37 subtract 17
* Double 50 more than 30
* 30 less than 40 X 4 ·
* 16 more than 40 X 5
* 20 less than 80 X3
* 5 + 8+ 5
* 17 – 6 + 6
* 40 more than 50 / 3
* 50 less than 60 / 2
* 12 + 8 +40
* 19 – 7 X 2
* Estimate 37 X 81, divide by 8.
* Estimate 51 X 29, round to the nearest 1000.
* 37 tens = \_\_\_\_ add 5 hundreds and 4 ones
* 96 divided by 3 is? Double your answer.
* Triple 12. Subtract 6. Divide by 2.
* Inches x 5 Double 13. Subtract 7.
* Double 16, add four, find the positive square root.
* 270 divided by 30, take your answer to the third power
* 64 + 7, take away 7, find the positive square root
* 80 x 30, divided by 60
* 600 – 30, then add $5.25
* 80 divided by 2, square the answer ?
* Round to the lead digit of 493 and find half of that number
* Round 6,289 to the nearest one thousand, then divide by 2
* Estimate 3,219 X 4 then subtract 5,000
* 5,600 divided by 7 = take that number and divide by 50.
* Start with the average of 5, 8, and 8. Add the greater number 0.5 or 0.05. Round that number to the nearest whole number. Multiply that number by 9.

Measurement Multi-Step Questions

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| **Measurement** |

* A plant grows 3 centimeters in a month, how tall will it be in 3 years?  In 5?
* How many inches are in a yard?  If you are 2 yards tall, how many inches tall are you?
* Inches in a foot plus the number of inches in a yard
* How many ounces are in a pound?  How many in 3 pounds? Now subtract one pound.
* Inches in a foot plus feet in a yard plus feet in miles minus 1
* Feet in a yard + inches in a foot, divided by 5
* How many inches are in 3 feet?  Name an object that is about that length.
* Which is larger a pint or a gallon? Name something that you would measure in pints or gallons.
* Start with the number of feet in a yard. Multiply this number by the number of inches in 1 foot. Divide that number by 9. What number do you have?

Fraction Multi-Step Questions

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| **Measurement** |

* Double 70 and add 10. What is ¼ of that number?
* ¼ of a dollar plus 1/10 of a dollar
* ½ of 48, take that answer and find 1/3 of it
* 1/3 of 30 is? Is your answer prime or composite?
* 82 plus 18 Then add 11 How many 1/4 are in 2 ¾ How many halves is this?
* Estimate 2/16 plus 1 ¾ The add 1 3/16
* Estimate 1 7/8 plus 2 1/9 Then add 3 1/6
* Equivalent Fraction for ¼ Multiply by 3
* Equivalent Fraction for ½ Multiply by 2
* 3/4 c. of sugar cut in half; ¼ c. of flour cut in half.  What is the total amount of dry ingredients in this recipe?
* ¼ of 24 and 1/3 of 18
* ½ of 120 is? Add 100
* Three add 22 and this is ¼ of our desired number or whole.
* ½ of 1000 + ½ of 200 =
* Take 2 and subtract ½ = Now add 6 ½ and then subtract ¾
* 2 ½ + ½ =   Take away ¼ and then add ¾ Now add one more year and then multiply that number by 5