

Deciding between Math 7 or Math 7 Honors

Math class	Recommendations	Recommended Mathematical skills
Math 7	<p>The successful completion of 6th grade math</p> <p>Completes the “Math 7” summer math packet with understanding</p>	<ul style="list-style-type: none"> • Operations with whole numbers, fractions and decimals (adding, subtracting, multiplying, dividing positive numbers) • Long division • Place value of decimals (tenths, hundredths, thousandths, etc.) • Identify basic polygons • Understand measures of central tendency (mean, median, mode, range) • Probability of simple events (picking a card, rolling dice)
Math 7 Honors	<p>Mostly 4’s in previous math courses</p> <p>Pass advance on all previous math SOLs (500+)</p> <p>Completes the “Math 7 Honors” summer math packet with understanding</p>	<ul style="list-style-type: none"> • Fraction, Decimal, Percent math sense: ordering, calculating, converting • Able to solve 1-step and 2-step equations • Able to solve and graph one-step inequalities • All operations with integers (adding, subtracting, multiplying, dividing) • Proportional reasoning • General understanding of consumer math (tax, tip, discount) • Foundation of geometry: polygon vocabulary • Understand measures of central tendency (mean, median, mode, range) • Probability of an independent event
Is your child ready for Math 7 Honors?	<p>Ask yourself if your child:</p> <ul style="list-style-type: none"> • Is very interested in any mathematical problems and seeks those that pose a challenge? • Has excellent attendance and completes homework, class work and other assignments in a timely manner? • Has developed organizational and time management skills? • Completes the majority of their homework without additional help? • Contributes insightful and salient points to class discussions about problems? <p>Is prepared to learn and use effective strategies for approaching any mathematical problem?</p> <ul style="list-style-type: none"> • Is an <i>independent</i> learner who is eager to improve their skills? • Responds well to constructive criticism • Can manage the accelerated pace of the mathematics curriculum? • Will be ready to take the math 8 SOL as a 7th grade student? 	

<p>Does your child qualify for Algebra I Honors?</p>	<ul style="list-style-type: none"> Advanced Mathematics 6 or a year-long accelerated mathematics course • Iowa Algebra Aptitude Test (IAAT) score at or above the 91st percentile • A score of pass advanced (500 or above) on the Mathematics 7 SOL test <p>Students should register for Math 7 Honors and those who qualify for Algebra I Honors will be changed during the summer. Letters will be mailed from Irving this summer regarding placement. Please wait until this letter is received to make any appeals.</p>
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The following compares test problems for the Math 7 level vs Math 7 Honors:

<p>Math 7</p>	<p>Math 7 Honors</p>
<p>1. What is the coefficient in the expression 6 – 2x ?</p> <p>_____</p> <p>2. What is the constant in the expression 12 + 3y ?</p> <p>_____</p> <p>3. Which of the following is an algebraic equation?</p> <p>a. $9 + 3 = 12$ c. $7x + 5$</p> <p>b. $a + b = c$ d. $6 - 2y = 16$</p>	<p>Use the expression $9x^2 - 5x - 3y + 12$, to answer the following questions.</p> <p>1. What is the constant in the expression?</p> <p>_____</p> <p>2. How many terms are in the expression?</p> <p>_____</p> <p>3. Circle <u>all</u> of the following numbers below that are coefficients for the expression above.</p> <p>-12 3 -9 -5 5 -3 9 12</p>

<p>4. $2 - 25 \div 5 \bullet 2 + 17$</p> <p>5) $6^2 + (-5 + 18)$</p> <p>6) $12 - 4^2 + 8$</p>	<p>4) $-2\left(\frac{5}{9} + \frac{22}{9}\right)^2 - \sqrt{49} \cdot (-2)$</p> <p>5) Evaluate if $a = -3$, $b = 6$ and $c = -2$</p> $-\sqrt{3^2 + 16} - a^2 + bc$ <p>6) Evaluate if $x = -2$, $y = -6$ and $z = -9$</p> $\frac{-z - (y)^2 \div x}{z + 6^1}$
<p>7. Simplify the following expression: $3 - 2a + 6 - 3b - 7$</p> <p>8. Simplify the following expression: $6b - 2b + 17b - (-3b)$</p>	<p>7. Simplify the following expression: $3x^2 - 5x - 6x^2 - (-2x) + 15$</p> <p>8. Simplify the following expression: $9a - 12b - 5 + 3(4a - c) + 9b + 10$</p>

Solve each for x:

9. $x + 4 = 39$

10. $5x - 3 = 12$

11. $27 = 3x$

12. $6x - 2 = 52$

13. $2x - 8 = 0$

Solve each for x:

14. $\frac{1}{2}(-2x - 4) = 2x + 16$

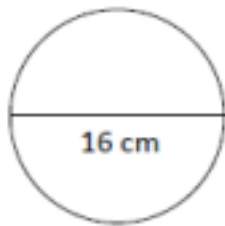
15. $8x + 8 = 8(2x - 7) =$

16. $5 - \frac{1}{7}x = -2$

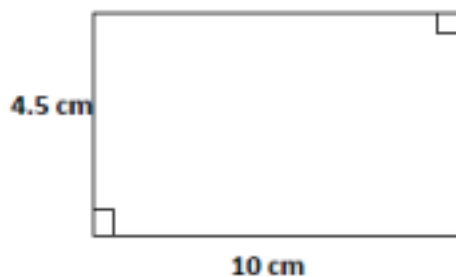
17. $3 + 4(z - 4) = 31$

18. $8y + (-5y) - 12 = -2y + 18$

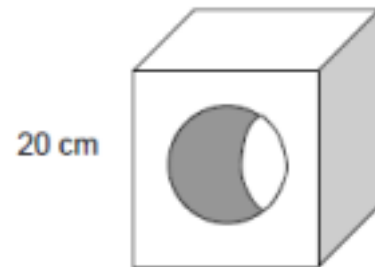
4) Find the area.



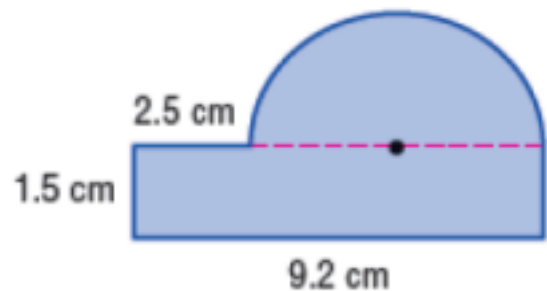
5) Find the area.



10. What is the volume of wood left in the cube after a hole with a diameter of 10 cm is drilled through the cube?



Find the area of the shaded figure below:



15) Stephen was thinking of a number. The quotient of the number and 3 is 15.

Translate and find the number that Stephen is thinking of.

16) A taxi company charges \$3.00 for the service and \$0.50 per mile traveled.

How much does a ride cost if you rode the taxi for 9 miles?

19. A taxi cab driver charges \$5.00 for the first mile and \$1.50 for each additional mile. Which equation could be used to best represent the total cost, C , based on the total number of miles, m ?

a. $C = 5m + 1.5$

b. $C = 5 + 1.5m$

c. $C = 5 + 1.5(m - 1)$

d. $C = 5(m - 1) + 1.5$

20. A cell phone company's basic plan offers 700 minutes for \$40 a month plus a charge of \$0.10 per minute for any additional minutes over the initial 700 minutes. The charge per month can be represented by the equation $C = 0.1(m - 700) + 40$, where C represents the total cost, and m represents the total number of minutes. How much would the bill cost if a customer used 1,000 minutes in one month?