

Lesson 1.1 Number Properties

There are certain rules or properties of math that are always true.

The **Commutative Properties** of addition and multiplication state that the order in which numbers are added or multiplied does not change the result.

$$\begin{array}{lcl} a + b = b + a & \text{and} & a \times b = b \times a \\ 2 + 3 = 5 & & 5 \times 2 = 10 \\ 3 + 2 = 5 & & 2 \times 5 = 10 \end{array}$$

The **Associative Properties** of addition and multiplication state that the way in which addends or factors are grouped does not change the result.

$$\begin{array}{lcl} (a + b) + c = a + (b + c) & \text{and} & (a \times b) \times c = a \times (b \times c) \\ (2 + 3) + 4 = 2 + (3 + 4) & & (2 \times 4) \times 5 = 2 \times (4 \times 5) \\ 5 + 4 = 2 + 7 & & 8 \times 5 = 2 \times 20 \\ 9 = 9 & & 40 = 40 \end{array}$$

The **Identity Property of Addition** states that the sum of an addend and 0 is the addend.
 $5 + 0 = 5$

The **Identity Property of Multiplication** states that the product of a factor and 1 is that factor.
 $4 \times 1 = 4$

The **Properties of Zero** state that the product of a factor and 0 is 0. $5 \times 0 = 0$

The properties of zero also state that the quotient of zero and any non-zero divisor is 0. $0 \div 5 = 0$

Name the property shown by each statement.

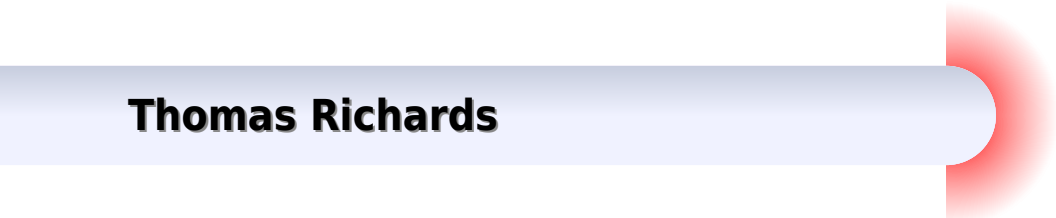
- | | |
|--|--|
| <p>1. $2 \times 8 = 8 \times 2$ _____</p> <p>2. $35 \times 1 = 35$ _____</p> <p>3. $4 \times (6 \times 2) = (4 \times 6) \times 2$ _____</p> <p>4. $45 + 0 = 45$ _____</p> | <p>5. $2 + (3 + 4) = (2 + 3) + 4$ _____</p> <p>6. $32 + 25 = 25 + 32$ _____</p> <p>7. $0 \times 9 = 0$ _____</p> <p>8. $18 \times 0 = 0 \times 18$ _____</p> |
|--|--|

Rewrite each expression using the property indicated.

- | | |
|--|--|
| 5. Associative; $(3 + 5) + 2 =$ _____ | Commutative; $5 \times 7 =$ _____ |
| 6. Identity; $0 + 4 =$ _____ | Associative; $3 \times (2 \times 5) =$ _____ |
| 7. Commutative; $7 + 9 =$ _____ | Associative; $(2 + 5) + 4 =$ _____ |
| 8. Identity; $7 \times 1 =$ _____ | Identity; $37 + 0 =$ _____ |
| 9. Properties of Zero; $0 \times 12 =$ _____ | Properties of Zero; $0 \div 6 =$ _____ |

Answer Key To Spectrum Math Grade 8

Thomas Richards



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leaders if the symbol has a leader click once to place the leader then click a second time to place the symbol multiple leaders while dragging the symbol and before placing it press ctrl the note stops moving and a second leader is added while still

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conventional method for designing surface finish as per is 696 surface texture specified by indicating the following a roughness value i e ra value in mm b machining allowance in mm c sampling length or instrument cut off length in mm d machining production method and e direction of lay in the symbol form as x m c r

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for jis symbols specify roughness ra roughness rz rmax for gost symbols you can also select use for notation displays the surface finish symbol 0 5 times larger than the default size add default symbol displays the default surface finish symbol in parentheses format use document font

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bs en iso 1302 2002 geometrical product specifications gps indication of surface texture in technical product documentation for notes on surface roughness use link surface roughness notes the symbol indicates the surface finish requirements and shows a machining allowance requirement of 3mm on all surfaces

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1 positions of auxiliary symbols for surface symbol a surface roughness value cut off value or reference length machining method grain direction surface undulation etc are indicated around the surface symbol as shown in fig 1 below fig 1 positions of auxiliary symbols

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surface symbol symbol indicating a surface where removal processes are prohibited symbol indicating a surface that requires a removal process examples of indicating the ra upper limit a b c example of indicating grain direction examples of indicating ra upper limit and lower limit a b examples of indicating the machining method

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jan 6 2021 the basic surface finish symbol is a check mark with the point resting on the surface to be specified variations of this symbol provide additional instructions as described in the table below figure 5 surface finish symbols basics

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surface finish symbols you can specify the surface texture of a part face by using a surface finish symbol you can select the

face in a part assembly or drawing document surface finish symbols are formed by combining the symbol and lay direction direction of lay

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to open the surface finish propertymanager do one of the following insert a new surface finish symbol click surface finish on the annotation toolbar or click insert annotations surface finish symbol select an existing surface finish symbol

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