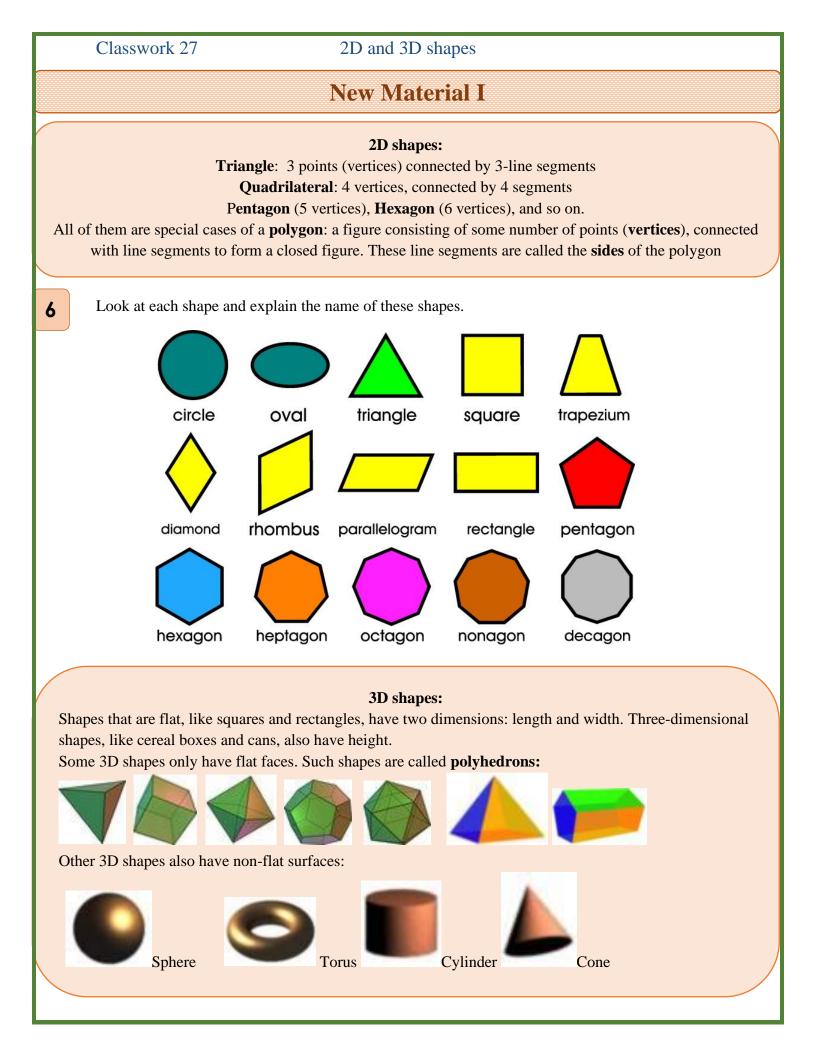


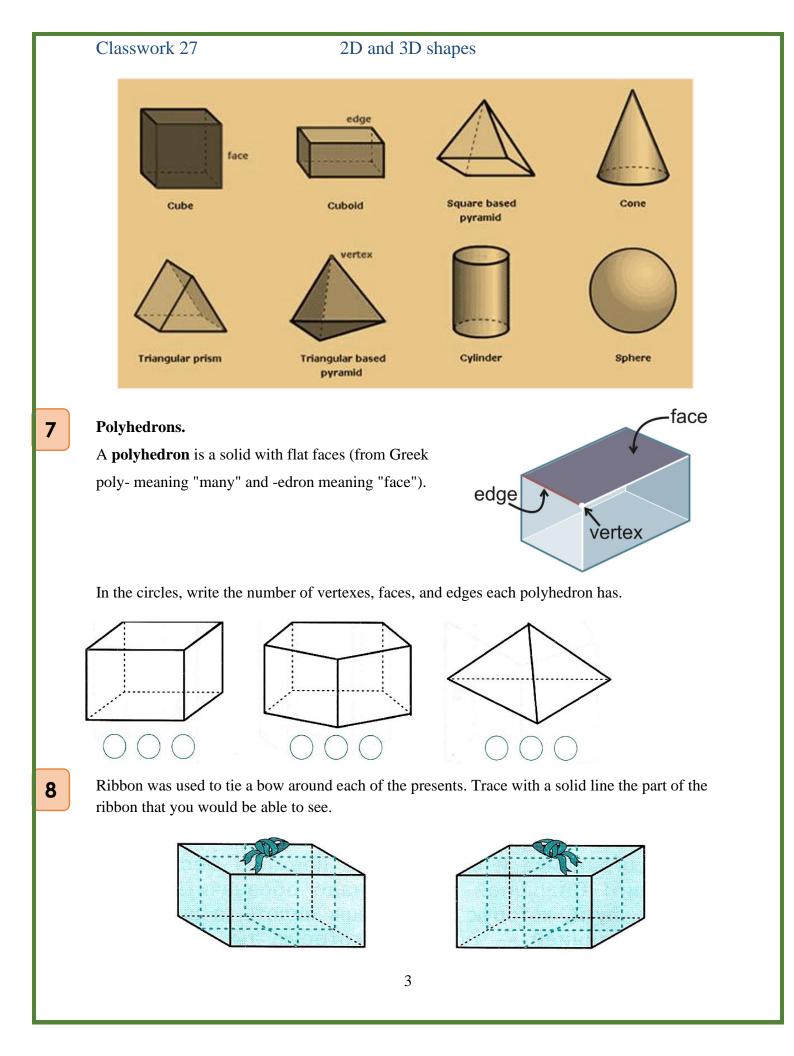
2D and 3D shapes

Math 2 Classwork 27

Warm Up

$5 \times 3 + 6 = _ 10 - 2 \times 5 = _ \\ 5 + 3 \times 6 = _ (10 - 2) \times 5 = _ \\ (5 + 3) \times 6 = _ 10 \times 5 - 2 \times 5 = _ \\ (5 + 3) \times 6 = _ n = 10 \times 5 - 2 \times 5 = _ \\ Convert the following units: 5km = _ m \\ 10m = _ cm = _ mm \\ 25dm = _ cm = _ mm \\ 361 cm = _ m _ dm _ cm \\ 3m 2cm = _ cm \\ \hline Homework Review Calculate: 40 \div 10 = 560 \div 10 = 3300 \div 10 = 7800 \div 10 = 5800 \div 100 = 3300 \div 100 = 7800 \div 100 = 5800 \div 100 = 3300 \div 100 = 7800 \div 100 = 5800 \div 100 = 3300 \div 100 = 7800 \div 100 = 5800 \div 100 = 3300 \div 100 = 7800 \div 100 = 5010 \div 100 = 3300 \div 100 = 7800 \div 100 = 5010 \div 100 = 5010 \div 100 = 3300 \div 100 = 7800 \div 100 = 5010 \div 100 = 5010 \div 100 = 3300 \div 100 = 7800 \div 100 = 5010 \div 100 = 3000 \div 100 = 7800 \div 100 = 5010 \div 100 = 3000 \div 100 = 7800 \div 100 = 500 \div 100 = 500 \div 100 = 500 \div 100 = 7800 \div 100 = 500 \div 100 \div 100 = 500 \div 100 = 500 \div 100 $	(furm op	
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$5 \times 3 + 6 = _ 10 - 2 \times 5 = _ \\ 5 + 3 \times 6 = _ (10 - 2) \times 5 = _ \\ (5 + 3) \times 6 = _ 10 \times 5 - 2 \times 5 = _ \\ (5 + 3) \times 6 = _ n = 10 \times 5 - 2 \times 5 = _ \\ Convert the following units: 5km = _ m \\ 10m = _ cm = _ mm \\ 25dm = _ m _ dm _ cm \\ 3m 2cm = _ m \\ Munework Review $ Calculate: $40 \div 10 = 560 \div 10 = 3300 \div 10 = 7800 \div 10 = 5800 \div 100 = 3300 \div 100 = 7800 \div 100 = 500 \div 100 = 3300 \div 100 = 7800 \div 100 = 500 \div 100 = 3300 \div 100 = 7800 \div 100 = 500 \div 100 = 3300 \div 100 = 7800 \div 100 = 500 \div 100 = 500 \div 100 = 300 \div 100 = 7800 \div 100 = 500 \div 100 = 500 \div 100 = 7800 \div 100 = 500 \div 100 = 500 \div 100 = 7800 \div 100 = 500 \div 100 = 500 \div 100 = 7800 \div 100 = 500 \div 100 = 500 \div 100 = 7800 \div 100 = 500 \div 100 = 500 \div 100 = 7800 \div 100 = 500 \div 100 = 500 \div 100 = 500 \div 100 = 7800 \div 100 = 500 \div 100 = 500 \div 100 = 7800 \div 100 = 500 \div 100 = 500 \div 100 = 500 \div 100 = 7800 \div 100 = 500 \div 100 = 500 \div 100 = 500 \div 100 = 7800 \div 100 = 500 \div 100 \div 100 = 500 \div 100 \div 100 = 500 \div 100 \div 100$	Who of them is right?	
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$5km = _\m \\ 10m = _\cm = _\mm \\ 25dm = _\cm = _\mm \\ 361 cm = __m \dm __cm \\ 3m 2cm = __cm \\ Homework Review \\ Calculate: \\ 40 \div 10 = 560 \div 10 = 3300 \div 10 = 7800 \div 10 = 5800 \div 100 = 2100 \div 100 = 3300 \div 100 = 7800 \div 100 = \\ 5800 \div 100 = 2100 \div 100 = 3300 \div 100 = 7800 \div 100 = \\ Solve each expression using the correct order of operations \\ 72 \div 9 - 4 \times 3 \div 6 + 20 \div (5 - 2) \times 3 = \ \\ 90 - 36 \div 9 \times 9 - (8 + 5 \times 2) = \ \\ 3 \times 8 \div 8 + 27 \div 3 \times (2 + 1) = \ \\ \end{cases}$	$(5+3) \times 6 =$ 10 × 5 - 2 × 5=	
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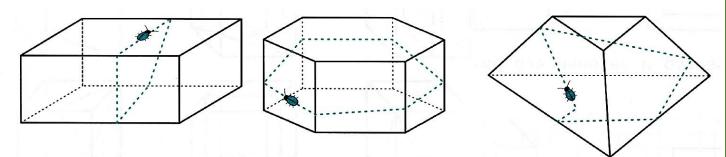
Classwork 27

9

10

2D and 3D shapes

Imagine that there is a bug crawling over the surface of a solid polyhedron. Trace with a solid line the parts of the path you would be able to see. Trace with dashed lines the parts of the path that you would not be able to see.



Division by zero.

Division is a reverse operation for multiplication.

$A \div B = C$ means that $C \times B = A$

If B = 0, then we divide A by 0 and there is no number, which, multiplied by 0, gives A (assuming A \neq 0), and

so division by zero is undefined.

 $A \div \theta$ has no meaning since $C \times \theta = \theta$ and never = A!

What do we do when we divide? "The division is an action of splitting objects or subjects into equal parts or groups. It is the result of "fair sharing."

For example, there are 12 apples, and two boys want to share them. How can they divide the apples? Twelve apples divided by 2 - each boy gets six apples: $12 \div 2 = 6$. Now, let us try to divide the 12 apples between zero boys. How much does each boy get? Does that question even make sense? We cannot share anything among zero boys.

If we want to think like mathematicians, we will say - multiplication is an inverse operation for division. When we divide 12 by 2, we are getting 6. It also means that when we multiply six by 2, we will get 12. $12 \div 2 = 6.6 \times 2 = 12$

What is 12 divided by 0? It means that we must find a number that, after multiplying by 0, will get to 12. But we know that multiplying by 0 always gives 0. So, such a number cannot be found. It simply doesn't exist, so we are saying that **division** by zero is **undefined**.

REVIEW I

a) Luke has two ten-dollar bills. His younger sister Leia has one five-dollar bill. They combine their money to buy a gift for their mother that costs \$22. How much change will they receive?

b) Jennie makes quilts. She can make 7 quilts with 21 yards of material. How many yards of material would be required to make 12 quilts?

