

	С	4	was taught: this year before
	D	У -	never
##	E	4 4 y	Calculator used: yes no
## a 	5 b	is equal to	
15	5 A	a - 3b 15	
	В	5a - 15b 15	
	С	a - b 10	Mathematics needed to answer this question was taught: this year before
	D	a - b 75	never Calculator used: yes
##	E	None of these	no
##	6 [Pi	cture]	
		atement can be used to value of y ?	
	A	y = 180 - 30	Mathematics needed to answer this question was taught:
	В	y = 270 - 30	this year before
	С	y = 270 + 30	never
	D E	y = 360 - 30 y = 360 + 30	Calculator used: yes no
##	7	-	
## ##	/		

Michael has a large number of wooden blocks which are cubical in shape with each edge 1 centimeter long. What is the maximum number of these blocks that can be used to fill a rectangular box with interior

high? Mathematics needed to A 27 answer this question was taught: 70 В this year before С 140 never D 280 Calculator used: yes E 700 no ## ## 8 1st row 1 2nd row 1 - 1 3rd row 1 - 1 + 1 4th row 1 - 1 + 1 - 1 5th row 1 - 1 + 1 - 1 + 1 What is the sum of the 50th row? Mathematics needed to A 0 answer this question was taught: в 1 this year before С 2 never D 25 Calculator used: yes E 30 no ## ## 9 162×45 is equal to Mathematics needed to A 1378 answer this question was taught: В 1458 this year before С 5890 never D 6290 Calculator used: yes E 7290 no ## Among the following lines $\mbox{\tt d}$, $\mbox{\tt d}$, $\mbox{\tt d}$, $\mbox{\tt d}$, which $\mbox{\tt 1}$ $\mbox{\tt 2}$ $\mbox{\tt 3}$ $\mbox{\tt 4}$ $\mbox{\tt 5}$

dimensions 10 centimeters long, 10 centimeters wide and 7 centimeters

has no point equidistant from

P and from Q?

А	d 1	
В	d 2	Mathematics needed to
С	d 3	answer this question was taught: this year
D	d 4	before
E	d 5	Calculator used: yes no
##		
## 11 Which or prime no	f these numbers is a umber?	
А	21	Mathematics needed to answer this question
В	22	was taught: this year before
С	23	never
D	24	Calculator used: yes
E ##	25	no
exactly	r ran 3,000 meters in 8 minutes. What was rage speed in meters ond?	
А	3.75	Mathematics needed to answer this question
В	6.25	was taught: this year before
С	16.0	never
D	37.5	Calculator used: yes
E ##	62.5	no
	d c are numbers greater Which of these is NOT	
equal to	a o - ? b	
	a -3	

```
- x --
    A
         b -3
          a c
         - x -
    В
          b c
          a 101
          - x ---
    С
                                                           Mathematics needed to
          b 101
                                                           answer this question
                                                           was taught:
                                                             this year
         - x 1
    D
                                                             before
          b
                                                             never
                                                           Calculator used:
         а
         - x 0
    Ε
                                                             yes
         b
                                                             no
##
## 14
    [ Picture ]
a ABC and \square A'B'C' are congruent
and their corresponding sides
are pararallel. \hfill\Box ABC maps onto
\square A'B'C' by a
[ Note: the character \ \square denotes the character for a triangle
                                                                      ]
                                                           Mathematics needed to
    Α
        reflection
                                                           answer this question
                                                           was taught:
    В
         glide reflection
                                                             this year
                                                             before
                                                             never
    С
         rotation
        enlargement
    D
                                                           Calculator used:
                                                             yes
    E
         translation
                                                             no
##
## 15
    [ Picture ]
The line m is a line of symmetry
for figure ABCDE. The measure
of angle BCD is
                                                           Mathematics needed to
          30ø
                                                           answer this question
                                                           was taught:
          50ø
                                                             this year
                                                             before
    С
          60ø
                                                             never
    D
          70ø
                                                           Calculator used:
                                                             yes
         110ø
    Ε
                                                             no
##
```

## 16 [Picture]					
ÄÄ AB	ÄÄ ³³ DC	ÄÄ ÄÄ and AD ³³ BC. Quadrilateral			
ABC	D is a				
	А	rhombus	Mathematics needed to answer this question		
	В	parallelogram	was taught: this year before		
	С	square	never		
	D	rectangle	Calculator used: yes		
##	E	none of the above	no		
from	m a ri t is t	timeter piece is cut bbon 1 meter long. he length of the piece?	Mathematics needed to		
	A	85 cm	Mathematics needed to answer this question		
	В	115 cm	was taught: this year		
	С	985 cm	before never		
	D	1015 cm	Calculator used: yes		
##	E	9985 cm	no		
3 T ÃÄÄ. 3 3 3 3 3	est sc ÄÄÄÄÄÄ 4 5 6 7 8 9	ÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ			
on	а 10-р	shows scores for a class oint test. How many in made a score GREATER THAN 7?			
	А	2	Mathematics needed to answer this question was taught:		
	В	8	this year before		

	С	10	never
	D	12	Calculator used:
##	E	20	yes no
##	19 [Pict	ture]	
is wee	plotte	aph, rainfall in centimeters d for 13 weeks. The average infall during the period is tely	
	A	1 centimeter	Mathematics needed to answer this question
			was taught:
	В	2 centimeters	this year before
	С	3 centimeters	never
	D	4 centimeterS	Calculator used: yes
##	E	5 centimeters	no
##	20 [Pic	ture]	
and	A is	ne direction of projection the axis of projection, which llowing statements is correct?	
	A	p(a) = b	Mathematics needed to answer this question was taught:
	В	p(d) = c	this year before
	С	p(d) = f	never
	D	p(g) = h	Calculator used: yes
##	E	p(c) = d	no
##	21 [Pic ⁺	ture]	
rec	tangle	is removed from the as shown. What is of the remaining part?	
	A	316 mý	Mathematics needed to answer this question was taught:
	В	300 mý	this year before
	С	284 mý	never
	D	80 mý	Calculator used: yes

	E	16 mý	no	
##				
##	22	9 = 36,		
		ual to		
			Mathematics neede	
	A	4 x 9	<pre>answer this quest was taught:</pre>	lon
	В	4 x 3	this year	
		2 0	before	
	С	2 x 9	never	
	D	2 x 3	Calculator used:	
	E	û2 x û 3	yes no	
##	Ti.	uz x u S		
##	23			
		ture]		
Шhо	nosit	ion on the scale indicated		
		row is		
	_	1 224	Mathematics neede	
	A	1.004	<pre>answer this quest was taught:</pre>	ion
	В	1.04	this year	
		1 00	before	
	С	1.08	never	
	D	1.4	Calculator used:	
	E	1.8	yes no	
##	Ti.	1.0		
##	24			
		is to mix green and yellow		
		the ratio of 4 to 7 to obtain he wants. If he has 28		
		green paint, how many liters		
of	yellow	paint should be added?		
	А	11	Mathematics neede answer this quest	
	2.1		was taught:	-1011
	В	16	this year before	
	С	28	never	
	D	49	Calculator used:	
	E	196	yes no	
##				
##	25			
Ú 4 ³	ÄÄÄÄÄÄ	j. E		
	ÄÄÄÄÄÄ			

One of the following figures is congruent with the figure above. Which one?

	A	[Figure]
	В	[Figure]
	С	[Figure]
	D	[Figure]
#	E	[Figure]
#				

Mathematics needed to answer this question was taught: this year ____ before ___ never ____ Calculator used: yes ____ no

26 [Picture]

In the figure the little squares are all the same size and the area of the whole rectangle is equal to 1. The area of the shaded part is equal to

Mathematics needed to answer this question was taught:
 this year _____ before

Calculator used:
yes
no

never

27

##

Four 1-liter bowls of ice cream were set out at a party. After the party, 1 bowl was empty, 2 were half full, and 1 was three-quarters full. How many liters of ice cream had been EATEN?

3 A 3 - 4

	В	3 2 - 4	
	С	2 - 2	Mathematics needed to answer this question was taught: this year before
	D	3 1 - 4	never Calculator used:
##	E	None of these	yes no
##	28 [Pic	ture]	
Anal ther Earl home the	bru then drove lville e in As	family took a car trip from rough Bergen to Chase. They be back to Bergen through and then returned to their mabru. If the total distance was 115 kilometers, how farm Anabru to Bergen?	
	A	20 kilometers	Mathematics needed to answer this question was taught:
	В	35 kilometers	this yearbefore
	С	40 klometers	never
	D	75 kilometers	Calculator used: yes
##	E	80 kilometers	no
##		s equal to	
	A	-3 46 x 10	
	В	-4 4.6 x 10	Mathematics needed to answer this question
	С	3 0.46 x 10	<pre>was taught: this year before</pre>
	D	4 4.6 x 10	never
		5	Calculator used: yes
##	E	46 x 10	no
##	30 [Pic	ture 1	

	measu: neares	re of the angle shown t to:		
	А	155ø	Mathematics answer this was taught:	
	В	145ø	this year before	
	С	50ø	never	
	D	35ø	Calculator v	used:
##	E	15ø	no	
Her		table of data and a graph me data. What is \mathbf{x} ?		
	ÄÄÄÄÄÄ 0 2 4	r of Cars ³ Frequency ÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ		
	[Pict	ture]	Mathematics	needed to
	A	2	answer this was taught:	
	В	3 4	this year before never	
	D	5	Calculator 1	
	E	6	yes no	
##				
##	32 [Pic	ture]		
If	□ XYZ :	is a triangle similar to		
□ A	BC but	$\ddot{\text{A}}\ddot{\text{A}}$ with side YZ 10 cm long and		
sid	ÄÄ e XZ 8	$\ddot{\rm A}\ddot{\rm A}$ cm long, how long is side XY ?		
[N	ote: tl	ne character \square denotes the character for a triang	le]
			Mathematics	
	A	4 cm	<pre>answer this was taught:</pre>	question
	В	5 cm	this year before	
	С	6 cm	never	

E ##		Calculator used: yes no
	3 Picture]	
gram, of point	e diagram, OPQR is a parallelo- O is the origin, the coordinates int P are (3,1) and those of R are (1,4). What are the inates of point Q ?	
A	(4,5)	Mathematics needed to answer this question
В	(5,4)	was taught: this year before
С	(3,4)	never
D	(4,3)	Calculator used: yes
##	(2,7)	no
The s	4 et of integers less than 5 presented on one of the r lines shown below. Which	Mathematics pooled to
A	[Figure]	Mathematics needed to answer this question
В	[Figure]	was taught: this year
С	[Figure]	before never
D	[Figure]	Calculator used:
E ##	[Figure]	yes no