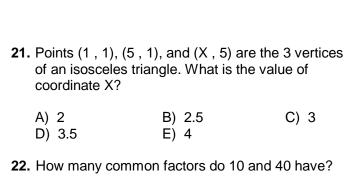
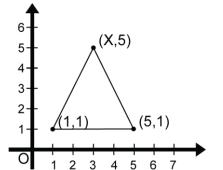
Mathematica Centrum Together, let's shape the mathematicians of the future

FIBONACCI PREPARATORY 2019

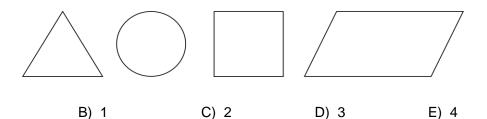
1.	The missing number	er in the equation: 8	x 3 =	4 x ? is				
	A) 8	B) 9	C)	10	D)	6	E)	7
2.	The sum of 8 + 50 +	+ 200 + 6 000 is						
	A) 6 258	B) 6 558	C)	6 858	D)	6 238	E)	6 458
3.	The value of (15 ÷ 3	3) x (16 - 9) is a mult	tiple (of				
	A) 2	B) 3	C) ·	4	D)	5	E)	6
4.	20 nickels = ? quart	ers.						
	A) 5	B) 4	C)	6	D)	3	E)	7
5.	What fraction of the	hexagon is shaded	?		_			
	A) 1/6 D) 1/3	B) 1/5 E) 1/2	C)	1/4				
6.	A natural number is The result could not			\				
	A) 42 D) 49	B) 56 E) 63	C) (88				
7.	How many blocks a	re there in the pile?						
	A) 10 D) 13	B) 11 E) 14	C)	12			>	
8.	If the last day of Jar then January 11 wa		_					
	A) Wednesday	B) Thursday	C)	Friday	D)	Saturday	E)	Sunday
9.	When twice 100 is r	multiplied by one qua	arter	of 12, the resu	ult is	6		
	A) 150	B) 300	C)	600	D)	200	E)	250

	1		$T \longrightarrow W \longrightarrow$	· X
A) 100 D) 10	B) 20 E) 1	C) 5	1	\downarrow
participated	X, Y, and Z are player in a chess tournamen von a game against U.	it. $T \rightarrow U$ means		Y → Z gle game?
A) 0	B) 1	C) 2	D) 3	E) 4
12. A 2-digit nat number that	tural number is multipl t has	ied by a 2-digit natur	al number. The pro	duct could be a natu
A) 4 digits	B) 6 digits	C) 5 digits	D) 7 digits	E) 2 digits
13. Which of the	e following expressions	s is the largest?		
A) 3!	B) 4!	C) 5!	D) 2! x 3!!	E) 6!
	of old pennies, nickels, b. How many dimes did		s. Andrea removes	7 coins having a tota
A) 0	B) 1	C) 2	D) 3	E) 4
both its leng	ar piece of land measu oth and its width increa ill increase by			40 m
A) 18 m D) 14 m	B) 20 m E) 22 m	C) 16 m	10 m	
	g more than half of my kilograms do I weigh?	y weight.		
A) 42 kg	B) 48 kg	C) 40 kg	D) 44 kg	E) 46 kg
	spend \$1 every secon	nd how much could y		4.0
17. If you could	οροιία ψι στοι ή σσσσι	ia, now maon ocaia	ou spena in a mini	ute?
17. If you could A) \$50	B) \$58	C) \$60	D) \$72	ute? E) \$24
A) \$50		C) \$60	D) \$72	
A) \$50	B) \$58	C) \$60	D) \$72	
A) \$50 18. A die is rolle A) 3/6	B) \$58 ed once. What is the p	C) \$60 robability of getting a	D) \$72 16? D) 4/6	E) \$24
A) \$50 18. A die is rolle A) 3/6	B) \$58 ed once. What is the page B) 1/6	C) \$60 robability of getting a	D) \$72 16? D) 4/6	E) \$24
 A) \$50 18. A die is rolle A) 3/6 19. How many e A) 16 D) 17 20. What is the 	B) \$58 ed once. What is the pi B) 1/6 even multiples of 3 are B) 15	C) \$60 robability of getting a C) 2/6 there between 0 and C) 18	D) \$72 16? D) 4/6	E) \$24





- A) 1 D) 4
- B) 2 E) 5
- C) 3
- 23. How many of the geometrical figures shown below (equilateral triangle, circle, square, and parallelogram) have at least 4 lines of symmetry?

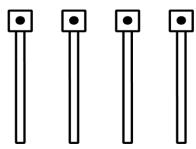


- 24. The unit's digit of the product 9 x 9 x 9 x 9 is
 - A) 7

A) 0

- B) 9
- C) 3
- D) 5
- E) 1
- 25. The mass of a very large marine rock has been estimated to be 10 000 000 kg. Due to climactic conditions, the rock loses 1 000 kg per year. In how many years will it lose 0.1% of its mass?
 - A) 10 years
- B) 20 years
- C) 50 years

- D) 80 years
- E) 100 years
- 26. Mathilda has bought 4 belts of different colours (white, blue, red, and green). Her closet has 4 hooks and she wants to hang one belt on each hook. How many different ways can she hang her 4 belts?



- A) 22
- B) 24
- C) 26

- D) 28
- E) 30