

IMC 2024 Global Round Answers (15 Feb 2025)

Cat Kids	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
1. A	1. B	1. D	1. B	1. B	1. C
2. B	2. C	2. B	2. C	2. B	2. D
3. C	3. D	3. C	3. C	3. C	3. C
4. B	4. B	4. B	4. D	4. D	4. A
5. C	5. B	5. C	5. A	5. C	5. D
6. A	6. C	6. B	6. B	6. C	6. C
7. A	7. B	7. B	7. B	7. A	7. A
8. D	8. D	8. D	8. D	8. B	8. B
9. B	9. C	9. C	9. A	9. C	9. A
10. A	10. D	10. B	10. A	10. C	10. C
11. C	11. C	11. A	11. A	11. D	11. C
12. D	12. A	12. B	12. A	12. A	12. D
13. B	13. C	13. D	13. C	13. A	13. D
14. D	14. C	14. A	14. A	14. B	14. B
15. D	15. B	15. C	15. C	15. A	15. D

Category Kids Open Questions	
16	Key: The number of faces. 2 bases + 5 lateral = 7 faces
17	Calculation: $100 + 2 \times 50 + 3 \times 20 + 4 \times 10 + 2 \times 5 + 3 \times 2 + 7 \times 1 = 323$

18

44	+	52	=	96			10
		÷		÷			×
4	-	2	=	2		16	4
×		=		=		÷	=
4		26		48	-	8	= 40
=						=	
16		20	-	18	=	2	15
		+		×			÷
11	÷	11	=	1			5
		=		=			=
		31		18	-	15	= 3

19 The answer can be 5 or 17:00

20



$$6 \text{ ? } + 7 = 13$$



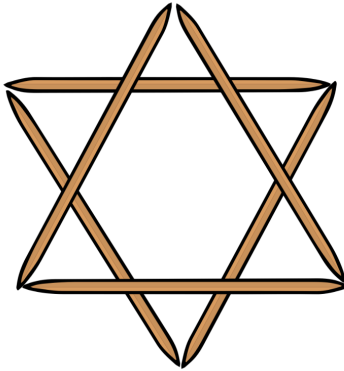
$$10 + 7 = 17$$



$$16 + 14 = 30$$

Answer is 6

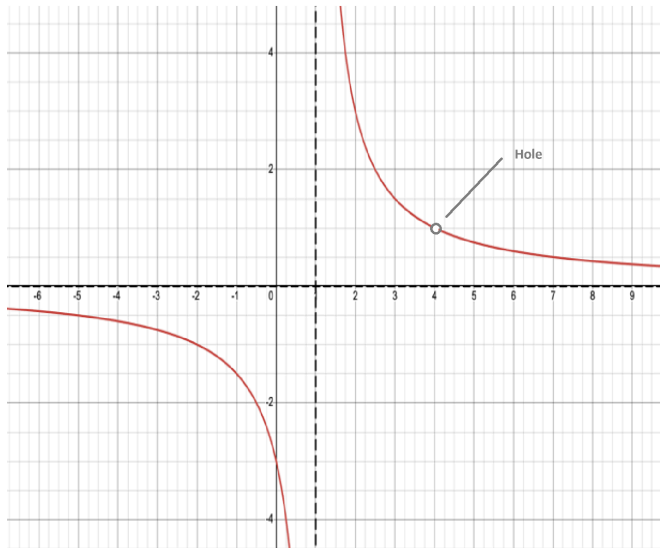
Category 1 Open Questions	
16	Answer: 79
17	Answer: 49
18	<p>a) What was the initial capacity of the tank?</p> <p>Answer: 80 l</p> <p>b) How much water flowed out of the tank between:</p> <p>10:00 to 11:00(10 a.m. and 11 a.m.)?</p> <p>Answer: 30 l</p>

	c) What was the average rate of water flow (liters per hour) from 9:00 to 13:00 (9 a.m. to 1 p.m.)? Answer: 20 l
19	Answer: 8 
20	Answer: 230 ml

	Category 2 Open Questions
16	Answer: 928 cm^2
17	Answer: 4 kg
18	Answer: 74
19	Answer: $500-50\pi$ (350 accepted)
20	Answer: 36

	Category 3 Open Questions
16	Answer: 16
17	Answer: $1/4$
18	Answer: 928 cm^2
19	Answer: 7.2 liters
20	Answer: $1/16$ and $1/20$

Category 4 Open Questions	
16	Answer: 512
17	Answer: 818
18	Answer: $2r^2$
19	Answer: 4/9
20	Answer: 48

Category 5 Open Questions	
16	Answer: 1/4
17	Answer: $2r^2$
18	Answer: $\pi/24$
19	 <p>Answer:</p>
20	Answer: 3.025 121/40