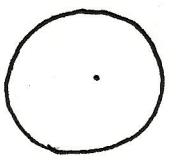
"Monsters, Inc."

1. $2010 - 1967 = 43$ years → B.

2. 739 is prime → C.

3. 

$\pi r^2 = 49\pi$

$r = 7$ in. → B.

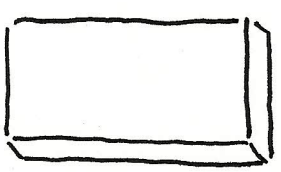
4. $\sqrt{(16+9)} + 2 \times 3(32 \div 4^2)$

$\sqrt{25} + 6(32 \div 16)$

$5 + 6(2)$

$5 + 12$

17 → A.

5. 

$lw \times h = V$

$(3)(1)(x) = 21$

$3x = 21$

$x = 7$ ft. → B.

6.

Sun	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.
13	15	17	19	21	23	25
	+2	+2	+2	+2	+2	+2

$13 + 15 + 17 + 19 + 21 + 23 + 25 = 133$ → C

7. $4(9+16)^2 + 4(1-15) + 3^0$

$4(25)^2 + 4(-14) + 1$

$4(625) + (-56) + 1$

$2500 - 56 + 1$

$= 2445$ → B.

8. $9+8+7+7+3+12+7+16+9+10$

$17 + 14 + 15 + 23 + 19$

$31 + 38 + 19$

$= \frac{88}{10} = 8.8$ screams → D.

9. rhombus → C.

10. $1 = \frac{4}{5} + \frac{1}{8} + x$

$1 = \frac{32+5}{40} + x$

$1 = \frac{37}{40} + x$

$\frac{40}{40} - \frac{37}{40} = x$

$x = \frac{3}{40}$ → A.

11. $7\frac{8}{9} = \frac{63+8}{9} = \frac{71}{9}$ → B.

12.
$$\begin{array}{r} {\scriptstyle 3\ 2} \\ 4.33 \\ 14.87 \\ 31.99 \\ +\ 1.98 \\ \hline \$53.17 \end{array}$$

$$\begin{array}{r} {\scriptstyle 9\ 9\ 9} \\ 100.00^{10} \\ -\ 53.17 \\ \hline \$46.83 \end{array}$$

$$\begin{array}{r} \$15.61 \\ 3\overline{)46.83} \\ -3\downarrow \\ \hline 16 \\ -15 \\ \hline 18 \\ -18 \\ \hline 03 \\ -3 \\ \hline 0 \end{array}$$ → C.

13. $\frac{4 \cdot 16(9-17)}{-2}$

$\frac{4 \cdot 16(-8)}{-2}$

$\frac{4 \cdot (-128)}{-2}$

$+\frac{512}{+2} = 256 \rightarrow B.$

14. $5/8 \rightarrow C.$

15. $V = \pi(1^2)(3)$
$= \pi(1)(3)$
$= 3\pi \rightarrow A.$

16. two $\rightarrow$ T $\rightarrow$ D.

17. $3168 \text{ in.}^3 = (88 \text{ in.}^2)(x \text{ in.})$
$x = 36 \text{ in.} \rightarrow C.$

18.

blue	pink	orange	purple	red
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20

↑ pattern

blue $\rightarrow$ E. NOTA

19. $(8 \text{ ft.})(3 \text{ ft.})$
$24 \text{ ft.}^2 \rightarrow D.$

20. $2(8 \text{ ft.}) + 2(3 \text{ ft.})$

$16 \text{ ft.} + 6 \text{ ft.}$

$22 \text{ ft.} \rightarrow C.$

21. 

$2\pi r = (2)(6)\pi$

$= 12\pi \rightarrow A.$

22. 1 hr. = 7 children

1 hr. = 60 mins

$$7\overline{)60.000} = 8.571 \text{ mins} \rightarrow D.$$

-56

40

-35

50

-49

10

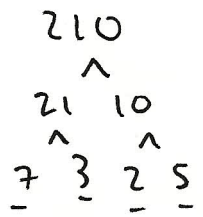
23. 1, 3, 3, 3, 5, 6, 7, 7, **7**, 7, 9, 10, 14, 14, 20, 25, 26

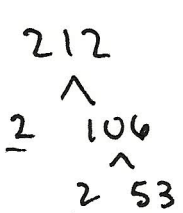
med : 7 $\rightarrow$ B.

24. 7 $\rightarrow$ B.

25. ellipse $\rightarrow$ D.

26.





2 $\rightarrow$ A.

27. $\frac{.25 \text{ ft.}}{1 \text{ sec.}} = \frac{8 \text{ ft.}}{x \text{ sec.}}$

$8 \text{ ft./sec.} = .25x \text{ ft./sec.}$

$x = 32 \text{ ft/sec.} \rightarrow D.$

28. $(5 \text{ ft.} \times 7 \text{ ft.}) - (4 \text{ ft.} \times 4 \text{ ft.})$

$35 \text{ ft.}^2 - 16 \text{ ft.}^2$

$19 \text{ ft.}^2 \rightarrow B.$

29. $\frac{2}{5} \cdot \frac{5}{8} = \frac{1}{4} \rightarrow B$

30. A