

Grade 5

1. D
2. C
3. D
4. C
5. C
6. B
7. B
8. C
9. D
10. C
11. A
12. B
13. C
14. A
15. D
16. C
17. C
18. D
19. C
20. A
21. 21
22. 2.3

$$\begin{aligned}5\frac{1}{2} - 2\frac{3}{4} + 1\frac{1}{6} &= 5\frac{6}{12} - 2\frac{9}{12} + 1\frac{2}{12} \\ &= 4\frac{18}{12} - 2\frac{9}{12} + 1\frac{2}{12} \\ &= 3\frac{11}{12}\end{aligned}$$

23.

$$\begin{aligned}65 - 3 \times [72 - (36 + 20)] \\ &= 65 - 3 \times (72 - 56) \\ &= 65 - 3 \times 16 \\ &= 65 - 48 \\ &= 17\end{aligned}$$

24.

25. 4 PM

$$\frac{1}{2} \times \frac{3}{8} \times \frac{4}{9} = \frac{1}{12} \text{ ft}^2$$

26.

$$\frac{3}{5} - \frac{1}{3} = \frac{9}{15} - \frac{5}{15}$$

$$= \frac{4}{15}$$

Her dog ate  $\frac{4}{15}$  kg of dog food.

27.

$$\frac{1}{4} \times \frac{1}{5} = \frac{1}{20}$$

$$\frac{1}{20} \times 160 = 8$$

8 eggs were used to bake the chocolate cakes.

28.

$$\frac{42}{0.3} = 140$$

There are 140 cubes in all.

29.

$$\text{Area of Rectangle Y} = 5 \times 4 = 20 \text{ cm}^2$$

$$2 \text{ units} \rightarrow 20 \text{ cm}^2$$

$$5 \text{ units} \rightarrow \frac{5 \times 20}{2}$$

$$= 50 \text{ cm}^2$$

The area of Rectangle X is 50 cm<sup>2</sup>.

30.

$$\frac{1}{2} \times 30 \times (30 - 15) = 225 \text{ cm}^2$$

The area of the shaded region is 225 cm<sup>2</sup>.

31.

32. 640

$$\text{Volume of each cube} = \frac{6144}{96}$$

$$= 64$$

$$64 \text{ cm}^3 = 4 \times 4 \times 4$$

$$\text{Length} = 4 \text{ cm}$$

The length of each cube is 4 cm.

33.

$$36 \times 18 \times 20 = 12,960 \text{ cm}^3$$

$$= \frac{12960}{1000} \text{ L}$$

$$= 12.96 \text{ L}$$

The volume of water in the rectangular tank is 12.96L.

34.

35. 400

36. 20

37. 1.6

$$180^\circ - (28^\circ \times 2) = 124^\circ$$

$$m\angle AXD = 124^\circ$$

38.

$$180^\circ - 90^\circ - 60^\circ = 30^\circ$$

$$m\angle CAX = 30^\circ$$

39.

$$(180^\circ - 72^\circ) \div 2 = 54^\circ$$

$$m\angle QSR = 54^\circ$$

40.