

Name: \_\_\_\_\_

Due Date: \_\_\_\_\_

Teacher: \_\_\_\_\_

Parent Sign: \_\_\_\_\_

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### Questions

1. How many faces does a cube have?
2. How many edges does a cube have?
3. How many vertices does a cube have?
4. How many faces does a triangular prism have?
5. A net of a triangular prism has 2 triangular faces and how many rectangular faces?
6. How many faces does a rectangular prism (box) have?
7. A net of a cube contains how many squares?
8. How many faces meet at each vertex of a cube?
9. A right triangular prism has a triangular base with legs 6 cm and 8 cm. The prism length is 5 cm. What is its surface area (in  $\text{cm}^2$ )?
10. Same triangular base (legs 6 cm and 8 cm) with prism length 10 cm. What is the surface area ( $\text{cm}^2$ )?
11. Triangular prism with triangular base legs 3 cm and 4 cm and prism length 6 cm. What is the surface area ( $\text{cm}^2$ )?
12. Triangular prism with triangular base legs 6 cm and 8 cm and prism length 7 cm. What is the surface area ( $\text{cm}^2$ )?
13. A triangular prism has triangular bases of area  $20 \text{ cm}^2$  each. The three lateral rectangles have areas  $15 \text{ cm}^2$ ,  $25 \text{ cm}^2$  and  $30 \text{ cm}^2$ . What is the surface area ( $\text{cm}^2$ )?
14. A triangular prism has triangular base area  $12 \text{ cm}^2$ . The three lateral rectangles have widths 4 cm, 5 cm and 6 cm; the prism length is 3 cm. What is the surface area ( $\text{cm}^2$ )?
15. Triangular prism with triangular base sides 6 cm, 8 cm, 10 cm and prism length 4 cm. What is the surface area ( $\text{cm}^2$ )?
16. If the surface area of a triangular prism is  $200 \text{ cm}^2$  and the two triangular bases together are  $40 \text{ cm}^2$ , what is the combined area of the three lateral faces ( $\text{cm}^2$ )?
17. A triangular prism has triangular base area  $12 \text{ cm}^2$ . The triangle's side lengths are 5 cm, 5 cm and 8 cm; prism length is 4 cm. What is the surface area ( $\text{cm}^2$ )?
18. A triangular prism has lateral faces totaling  $90 \text{ cm}^2$  and each triangular base area is  $15 \text{ cm}^2$ . What is the surface area ( $\text{cm}^2$ )?
19. Triangular prism with triangular base legs 9 cm and 12 cm and prism length 2 cm. What is the surface area ( $\text{cm}^2$ )?
20. Triangular prism with triangular base legs 3 cm and 4 cm and prism length 9 cm. What is the surface area ( $\text{cm}^2$ )?
21. Rectangular prism with length 5 cm, width 3 cm and height 4 cm. What is the surface area ( $\text{cm}^2$ )?
22. Rectangular prism with length 10 cm, width 2 cm and height 3 cm. What is the surface area ( $\text{cm}^2$ )?
23. Rectangular prism with length 8 cm, width 4 cm and height 1 cm. What is the surface area ( $\text{cm}^2$ )?
24. A cube with side length 7 cm. What is its surface area ( $\text{cm}^2$ )?
25. Rectangular prism with length 6 cm, width 2 cm, height 5 cm. What is the surface area ( $\text{cm}^2$ )?
26. Rectangular prism length 12 cm, width 3 cm, height 2 cm. Find surface area ( $\text{cm}^2$ ).

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27. Rectangular prism length 9 cm, width 5 cm, height 2 cm. Find surface area ( $\text{cm}^2$ ).
28. Rectangular prism 4 cm by 3 cm by 2 cm. Find surface area ( $\text{cm}^2$ ).
29. Box with length 10 cm, width 8 cm and height 5 cm. What is the surface area ( $\text{cm}^2$ )?
30. A rectangular prism has surface area  $236 \text{ cm}^2$ . If length = 8 cm and width = 5 cm, find the height (cm).
31. A rectangular prism has width 4 cm and height 3 cm and surface area  $94 \text{ cm}^2$ . Find the length (cm).
32. A cube has surface area  $54 \text{ cm}^2$ . What is the side length (cm)?
33. Cuboid with dimensions 6 cm by 4 cm by 3 cm. What is the surface area ( $\text{cm}^2$ )?
34. Cuboid length 15 cm, width 2 cm, height 3 cm. Surface area ( $\text{cm}^2$ )?
35. Cuboid length 14 cm, width 7 cm, height 1 cm. Surface area ( $\text{cm}^2$ )?
36. A cuboid has length 10 cm, width 4 cm and surface area  $220 \text{ cm}^2$ . Find the height (cm).
37. A cuboid has three different face areas:  $24 \text{ cm}^2$ ,  $30 \text{ cm}^2$ , and  $20 \text{ cm}^2$  (each area is the area of a pair of opposite faces). What is the total surface area ( $\text{cm}^2$ )?
38. A shoebox is 30 cm by 20 cm by 10 cm. What is its surface area ( $\text{cm}^2$ )?
39. Small cuboid 2 cm by 3 cm by 4 cm. Surface area ( $\text{cm}^2$ )?
40. A cuboid has surface area  $384 \text{ cm}^2$  and dimensions 12 cm by 4 cm by h cm. Find h (cm).
41. A net of a box has two faces  $5 \text{ cm} \times 3 \text{ cm}$ , two faces  $5 \text{ cm} \times 4 \text{ cm}$ , and two faces  $4 \text{ cm} \times 3 \text{ cm}$ . What is the surface area ( $\text{cm}^2$ )?
42. A box net has faces: two  $6 \text{ cm} \times 2 \text{ cm}$ , two  $6 \text{ cm} \times 4 \text{ cm}$ , two  $2 \text{ cm} \times 4 \text{ cm}$ . Surface area ( $\text{cm}^2$ )?
43. Net with faces: two  $7 \text{ cm} \times 3 \text{ cm}$ , two  $7 \text{ cm} \times 2 \text{ cm}$ , two  $3 \text{ cm} \times 2 \text{ cm}$ . What is the surface area ( $\text{cm}^2$ )?
44. A box net has faces  $8 \text{ cm} \times 5 \text{ cm}$ ,  $8 \text{ cm} \times 2 \text{ cm}$ , and  $5 \text{ cm} \times 2 \text{ cm}$  (each repeated once). Find the surface area ( $\text{cm}^2$ ).
45. Net with faces two  $9 \text{ cm} \times 4 \text{ cm}$ , two  $9 \text{ cm} \times 1 \text{ cm}$ , two  $4 \text{ cm} \times 1 \text{ cm}$ . Surface area ( $\text{cm}^2$ )?
46. Box net faces: two  $12 \text{ cm} \times 3 \text{ cm}$ , two  $12 \text{ cm} \times 5 \text{ cm}$ , two  $3 \text{ cm} \times 5 \text{ cm}$ . Surface area ( $\text{cm}^2$ )?
47. Cereal box net: two faces  $18 \text{ cm} \times 12 \text{ cm}$ , two faces  $18 \text{ cm} \times 8 \text{ cm}$ , two faces  $12 \text{ cm} \times 8 \text{ cm}$ . Surface area ( $\text{cm}^2$ )?
48. Net with faces  $4 \text{ cm} \times 3 \text{ cm}$ ,  $4 \text{ cm} \times 2 \text{ cm}$ ,  $3 \text{ cm} \times 2 \text{ cm}$  (each twice). Surface area ( $\text{cm}^2$ )?
49. Box net: two faces  $11 \text{ cm} \times 5 \text{ cm}$ , two faces  $11 \text{ cm} \times 2 \text{ cm}$ , two faces  $5 \text{ cm} \times 2 \text{ cm}$ . Surface area ( $\text{cm}^2$ )?
50. Gift box net: two faces  $14 \text{ cm} \times 6 \text{ cm}$ , two faces  $14 \text{ cm} \times 3 \text{ cm}$ , two faces  $6 \text{ cm} \times 3 \text{ cm}$ . Surface area ( $\text{cm}^2$ )?