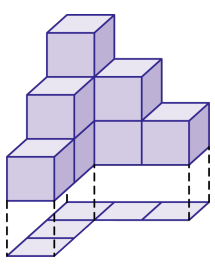
1. 사용된 쌓기나무의 개수를 구하시오.



답: _____ 개

2. 비례식 $1 : 3 = 2 : 6$ 에서 외항은 (　　)과 (　　)입니다. (　　)안에 알맞은 수를 쓰시오.

답: _____

답: _____

3. 16 : 10 을 가장 간단한 자연수의 비로 나타내려고 할 때, 16 : 10 을 두 수의 최대공약수로 나누면 가장 간단한 자연수의 비로 나타낼 수 있습니다. $\square$안에 들어갈 수를 왼쪽에서부터 차례대로 쓰시오.

$$16 : 10 = (16 \div \square) : (10 \div \square) = \square : \square$$

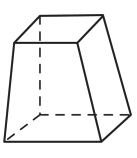
답: _____

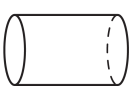
답: _____

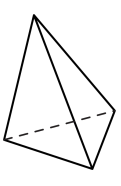
답: _____

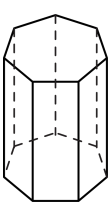
답: _____

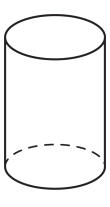
4. 다음 중 원기둥을 모두 고르시오.

① 

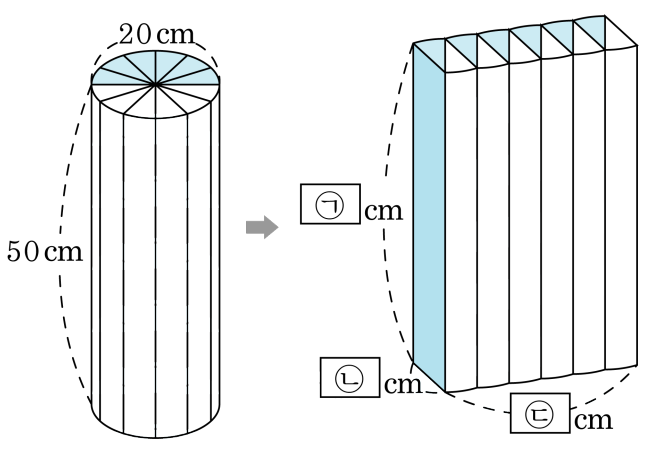
② 

③ 

④ 

⑤ 

5. 다음 원기둥을 잘게 잘라 오른쪽 그림과 같은 사각기둥을 만들었습니다. ㉠ ~ ㉢에 알맞은 수를 차례대로 쓰시오.

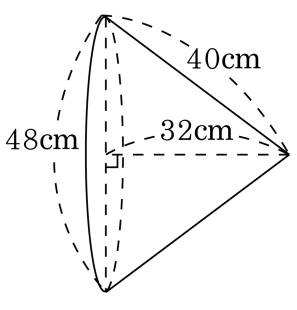


답: _____ cm

답: _____ cm

답: _____ cm

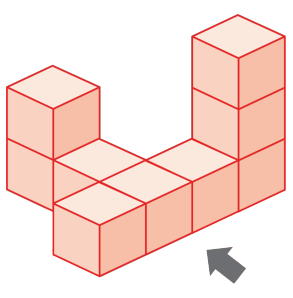
6. 다음 원뿔의 모선의 길이와 높이는 각각 몇 cm 인지 차례대로 구하시오.

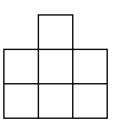


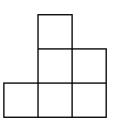
답: _____ cm

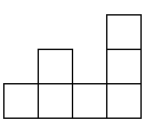
답: _____ cm

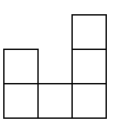
7. 다음 쌓기나무를 옆에서 본 모양은 어느 것입니까?

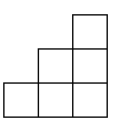


①


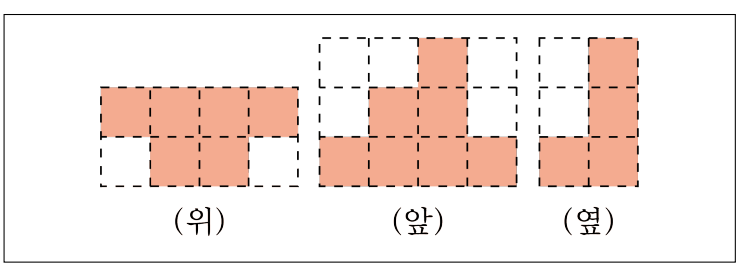
②


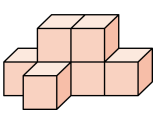
③


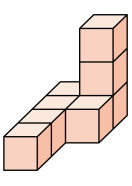
④


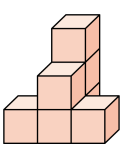
⑤


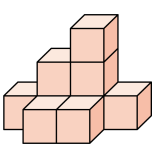
8. 다음은 쌓기나무로 쌓은 모양을 위, 앞, 옆에서 본 모양대로 그린 것입니다. 어떤 모양을 그린 것입니까?

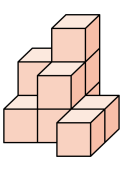


①


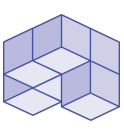
②


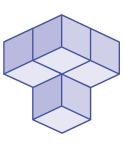
③


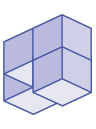
④


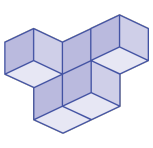
⑤


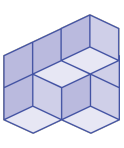
9. 다음 중 모양이 같은 것을 모두 고르시오.

① 

② 

③ 

④ 

⑤ 

10. 미주네 반은 남학생이 24명, 여학생이 21명입니다. 남학생수와 여학생수의 비를 가장 간단한 자연수의 비로 나타내시오.

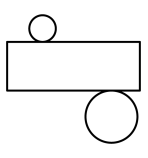
① 7 : 8 ② 24 : 21 ③ 8 : 5
④ 8 : 7 ⑤ 7 : 9

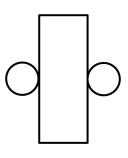
11. 비례식 $3 : \square = 18 : 12$ 에서 $\square$를 구하는 식으로 알맞은 것은 어느 것인지 고르시오.

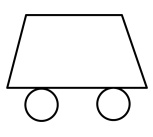
① $3 \times 12 \times 18$　② $3 \times 12 \div 18$　③ $18 \div 3 \times 12$

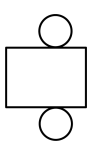
④ $18 \times 12 \div 3$　⑤ $18 \div 3 \div 12$

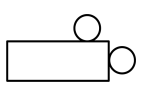
12. 다음 중 원기둥의 전개도는 어느 것입니까?

①


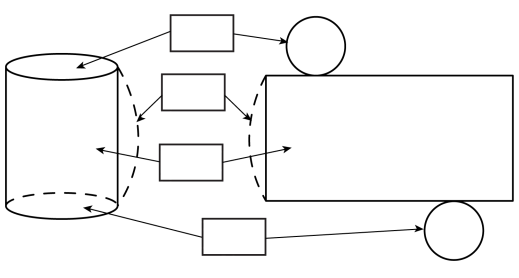
②


③


④


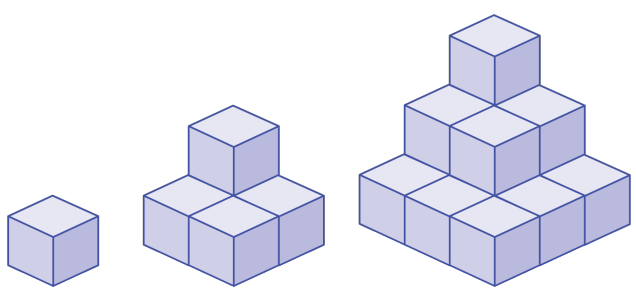
⑤


13. ☐안에 알맞은 말을 위에서 부터 차례로 고른 것은 어느 것입니까?



① 밑면, 높이, 옆면, 밑면
② 밑면, 밑면, 옆면, 높이
③ 밑면, 높이, 밑면, 옆면
④ 밑면, 옆면, 높이, 밑면
⑤ 밑면, 옆면, 밑면, 높이

14. 쌓기나무로 만든 모양을 보고, 넷째 번에 올 모양을 만들기 위해서 필요한 쌓기나무 개수를 구하시오.



답: _____ 개

15. 비의 값이 같은 비를 찾아 비례식으로 나타내시오.

3 : 4　　5 : 6　　8 : 6　　10 : 12

답: _____

16. 겉넓이가 $433.32\,\mathrm{cm}^2$ 이고 밑면의 지름이 $6\,\mathrm{cm}$ 인 원기둥의 옆면의 넓이는 얼마인지 구하시오.

답: _____ cm^2

17. 밑면의 지름이 $4\,\mathrm{cm}$ 인 원기둥 모양의 물통에 물을 $\frac{1}{2}$ 넣고, 그 속에 돌을 한 개 넣었더니 돌이 물 속에 완전히 잠기었고, 물의 높이는 $4\,\mathrm{cm}$ 가 높아졌습니다. 이 돌의 부피를 구하시오.

답: _____ cm^3

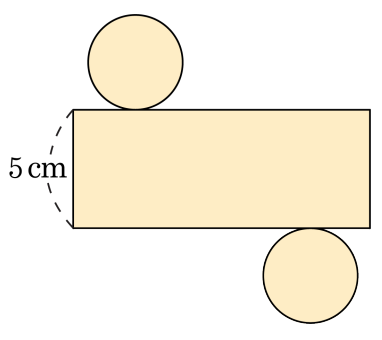
18. 어머니와 아버지의 몸무게는 비는 3.5 : 4.9 입니다. 영재의 몸무게는 어머니보다 12 kg이 적습니다. 아버지의 몸무게가 84 kg이라면, 영재의 몸무게는 몇 kg입니까?

① 40 kg ② 60 kg ③ 46 kg ④ 48 kg ⑤ 50 kg

19. 혜진이는 오늘 예금 통장에서 예금액의 $\frac{3}{7}$을 찾았습니다. 예금 통장에 남은 돈이 8000원이라면 혜진이가 찾은 돈은 얼마인지 구하시오.

답: _____ 원

20. 다음 전개도의 둘레의 길이는 60.24 cm 입니다. 이 전개도로 만들어지는 원기둥의 겉넓이는 몇 cm^2 입니까?



① $79.52\,cm^2$ ② $87.92\,cm^2$ ③ $92.86\,cm^2$
④ $100.48\,cm^2$ ⑤ $121.88\,cm^2$