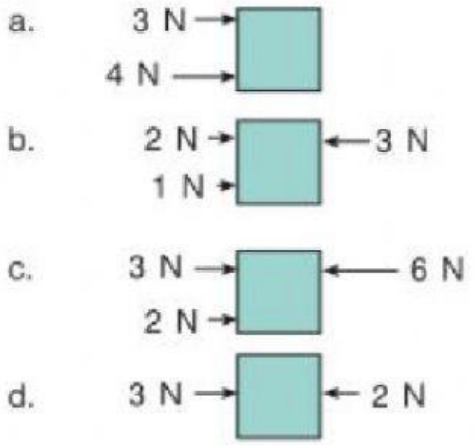
Part 2 25 points **Circle the correct answer for each question.**

1. What must we know when we want to find a resultant force?
   a. A magnitude of force
   b. A direction of force
   c. A shape of an object
   d. Both a. and b.
2. Which tool is used to measure the magnitude of force?
   a. A spring scale
   b. A measuring cylinder
   c. A measuring tape
   d. A tapeline
3. Which is the unit of force?
   a. Gram b. Newton
   c. Kilogram d. Kilometer
4. If the resultant force is zero, what will happen to the object?
   a. The object will move forward.
   b. The object will move fast.
   c. The object will move slowly.
   d. The object will not move.
5. If we use two cows to pull a cart, how many resultant force will there be?
   a. 1 force b. 2 forces
   c. 3 forces d. 4 forces
6. In which diagram will the object not move?



7. From Question 6, in which will the object move to the right?
   a. a. and b. b. b. and c.
   c. c. and d. d. a. and d.
8. A tow truck exerted 1,000 N to drag a car. A force of 100 N was also exerted to push the car before it started moving.

   If the extra force was not exerted, how much force would the tow truck need to move the car?
   a. 100 N b. 900 N
   c. 1,000 N d. 1,100 N
9. Team A played tug of war with Team B. Each team had 3 players. Each player of Team A exerted 500 N. How much force should each player of Team B exert so that they can win?
   a. 300 N b. 400 N
   c. 500 N d. 600 N

10. From Question 9, what is the resultant force of Team B?

a. 900 N

b. 1,200 N

c. 1,500 N

d. 1,800 N

11. Which of the following is correct?

a. An object that is not moving has the highest resultant force.

b. A resultant force makes an object to change its shape.

c. A resultant force is the sum of all forces that act on an object.

d. A and B push a cupboard in the same direction. The resultant force is zero.

12. Which does not use resultant force?

a. A swing

b. Rowing a boat

c. A syringe

d. A suspension bridge

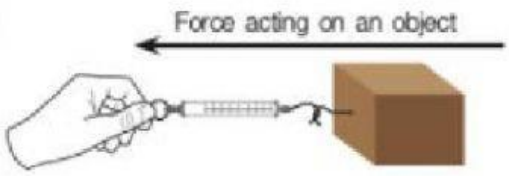
13. When will there be a friction force?

a. When an object is not moving on water.

b. When an object is moving.

c. When an object is hanging on a tree.

d. When an object is floating in the air.

14. 

From the picture, what is the direction of the friction force?

a. To the front

b. To the left

c. To the back

d. To the right

15. Which does not link to friction force?

a. The type of surface

b. The weight of an object

c. The size of an object

d. The color of an object

16. Why should we use tiles with rough surface on bathroom floor?

a. They are beautiful.

b. They are easy to clean.

c. They are not slippery when wet.

d. They lower friction force.

17. Which of these activities need the highest friction force?

a. Mountain climbing

b. Swimming

c. Playing football

d. Cycling

18. Which of these has an increase of friction force?
    a. The grooves on the sole of a sports shoe.
    b. A round cycling helmet
    c. A trolley for moving things
    d. A lubricant on a door hinge
19. Which surface give the highest friction force when we drag a bag over it?
    a. Plywood
    b. Sand
    c. Glass
    d. Tile
20. Which can move the furthest when we put equal forces in the same direction?
    a. An object with smooth surface moving on a smooth floor
    b. An object with smooth surface moving on a rough floor
    c. An object with rough surface moving on a smooth floor
    d. An object with rough surface moving on a rough floor
21. Why are there many accidents on the road when it rains?
    a. The rain makes the tires to widen.
    b. The rain makes the roads sticky.
    c. The rain shuts off the engines.
    d. The rain makes the roads slippery.

Read and answer questions 22-24.

The table shows the distances that a box moved on different types of floors when a force was exerted on it.

Types of floor	How far the box moves
A	2 m
B	3 m
C	2.5 m
D	4 m

22. Which Floor gives the lowest friction force?
    a. Floor A b. Floor B
    c. Floor C d. Floor D
23. What should Floor D be?
    a. Sand b. Glass
    c. Grass field d. Dirt road
24. Arrange the floors from the highest to the lowest friction forces.
    a. A>B>C>D
    b. D>C>B>A
    c. A>C>B>D
    d. D>B>C>A
25. Which of these is the use of lubricants?
    a. Lower an energy
    b. Increase an energy
    c. Lower the friction force
    d. Increase the friction force

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