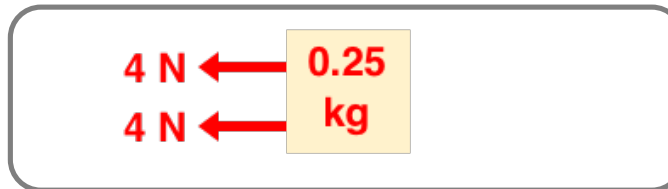
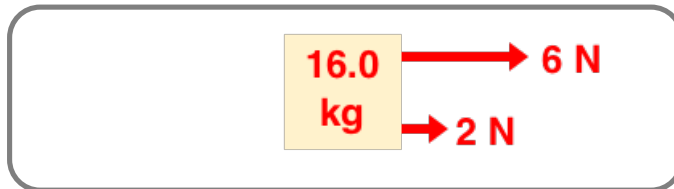
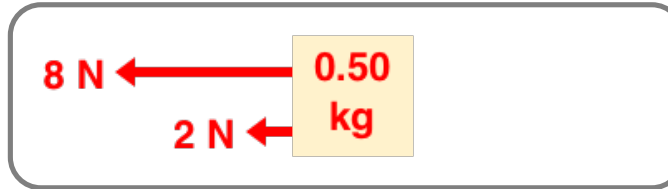
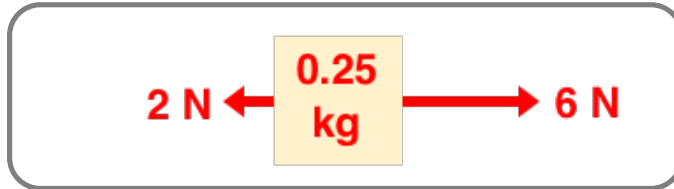


Net Force (and Acceleration) Ranking Tasks

Question Group 1

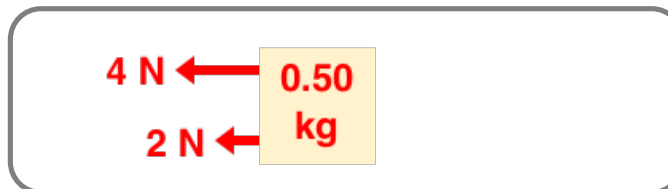
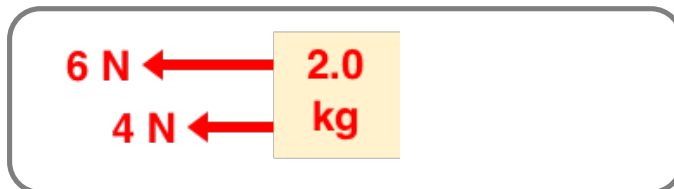
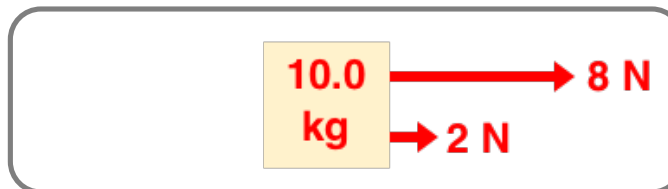
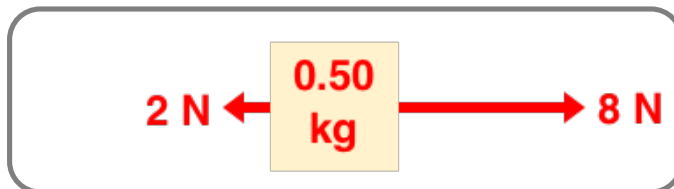
Question 1

Rank the objects according to **net force**; use 1 for the most negative and 4 for the most positive.



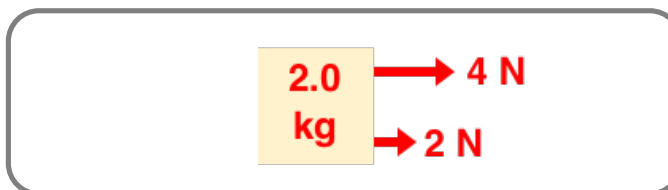
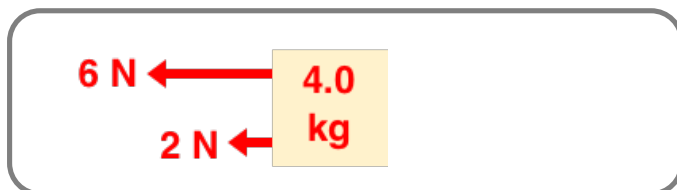
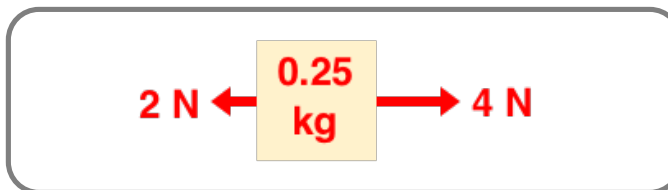
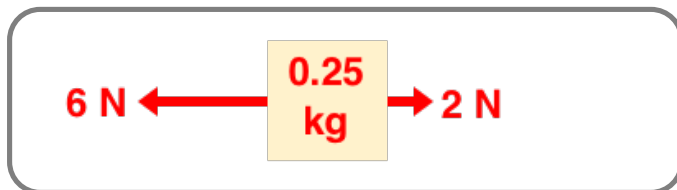
Question 2

Rank the objects according to **net force**; use 1 for the most negative and 4 for the most positive.



Question 3

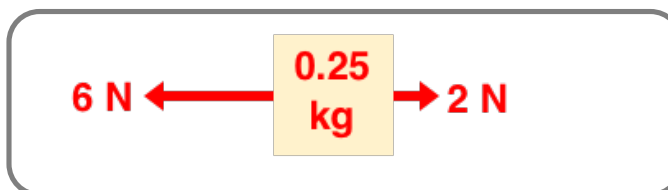
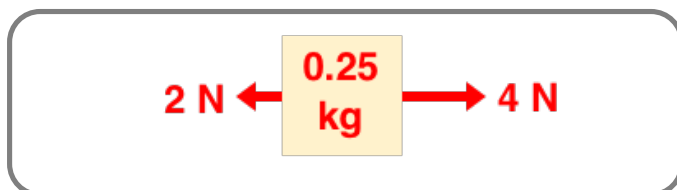
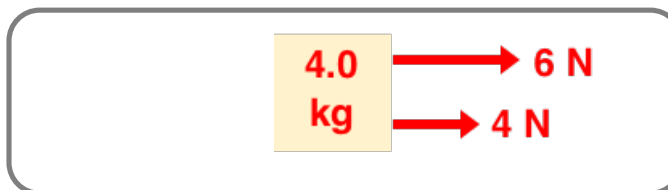
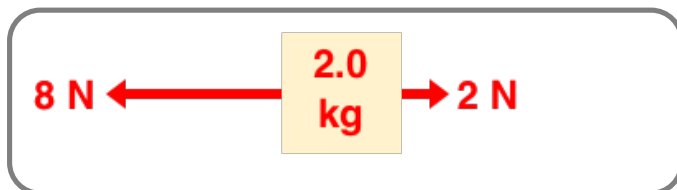
Rank the objects according to **net force**; use 1 for the most negative and 4 for the most positive.



Question Group 2

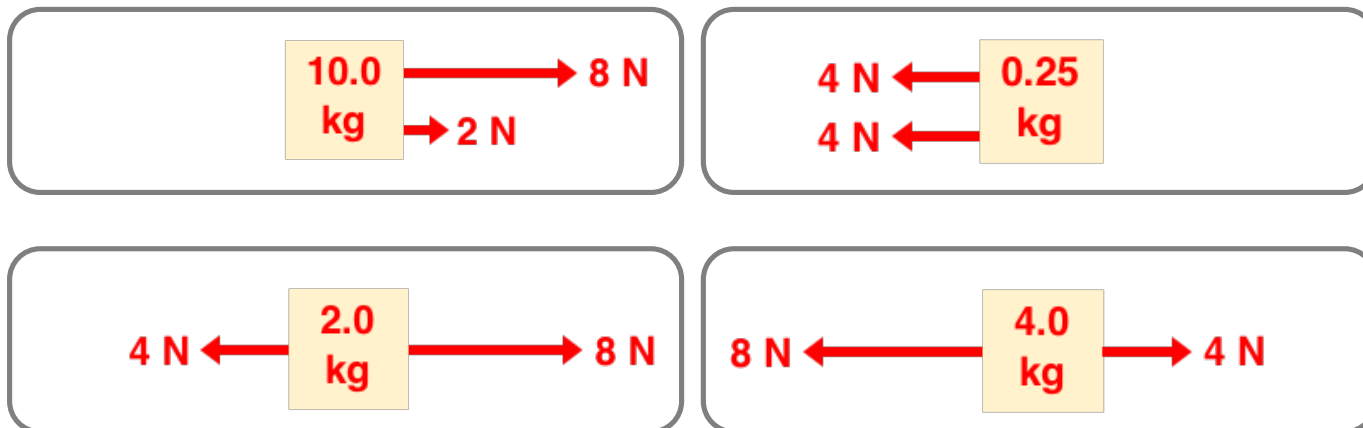
Question 4

Rank the objects according to **net force**; use 1 for the most negative and 4 for the most positive.



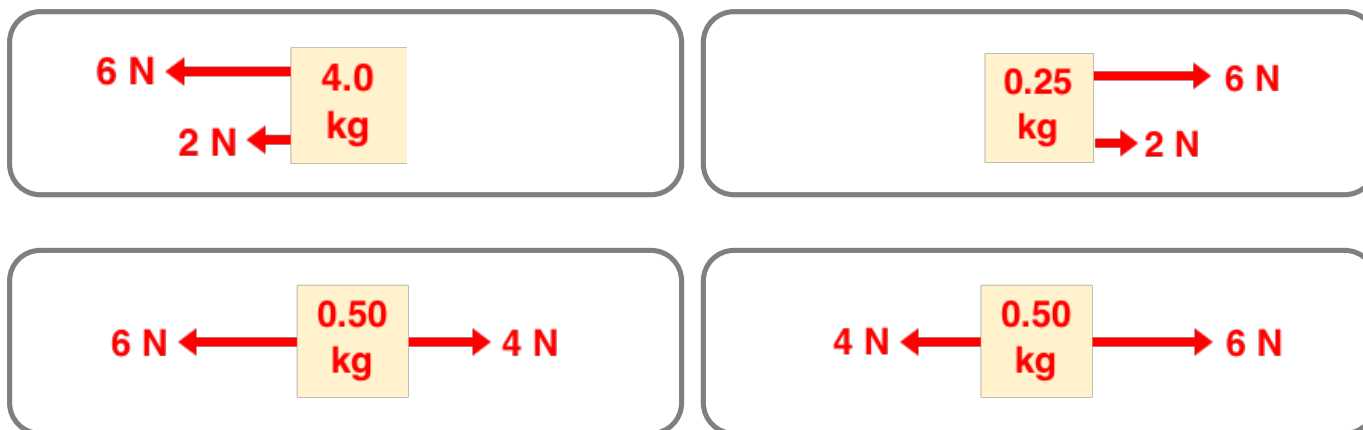
Question 5

Rank the objects according to **net force**; use 1 for the most negative and 4 for the most positive.



Question 6

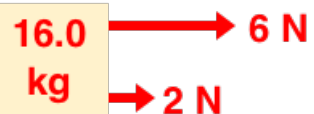
Rank the objects according to **net force**; use 1 for the most negative and 4 for the most positive.



Question Group 3

Question 7

Rank the objects according to **acceleration**; use 1 for the most negative and 4 for the most positive.



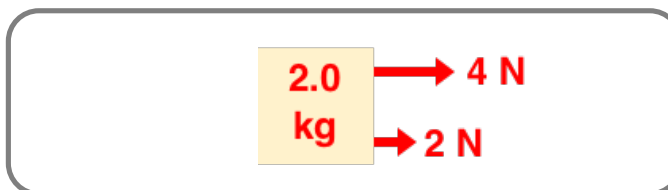
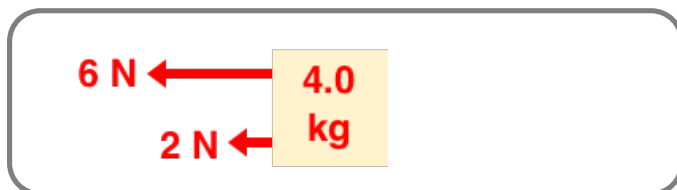
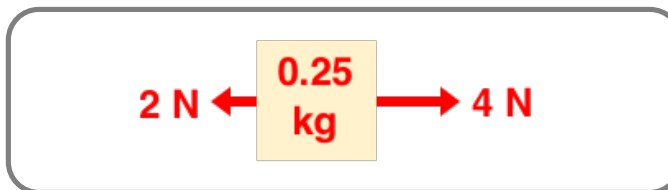
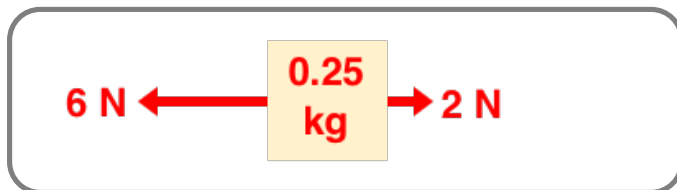
Question 8

Rank the objects according to **acceleration**; use 1 for the most negative and 4 for the most positive.



Question 9

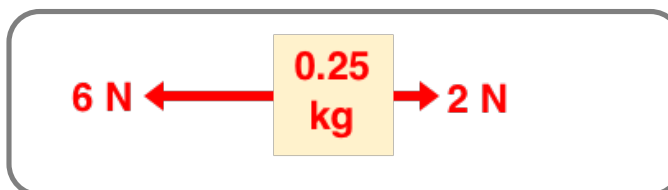
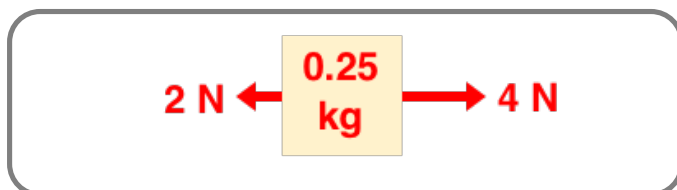
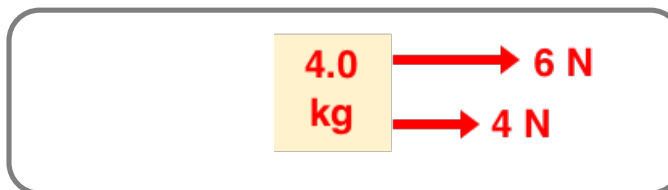
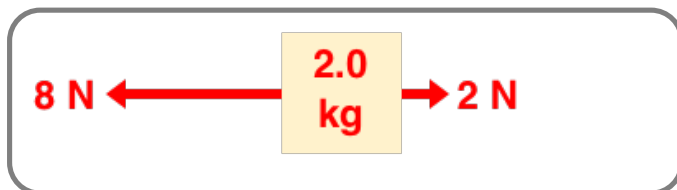
Rank the objects according to **acceleration**; use 1 for the most negative and 4 for the most positive.



Question Group 4

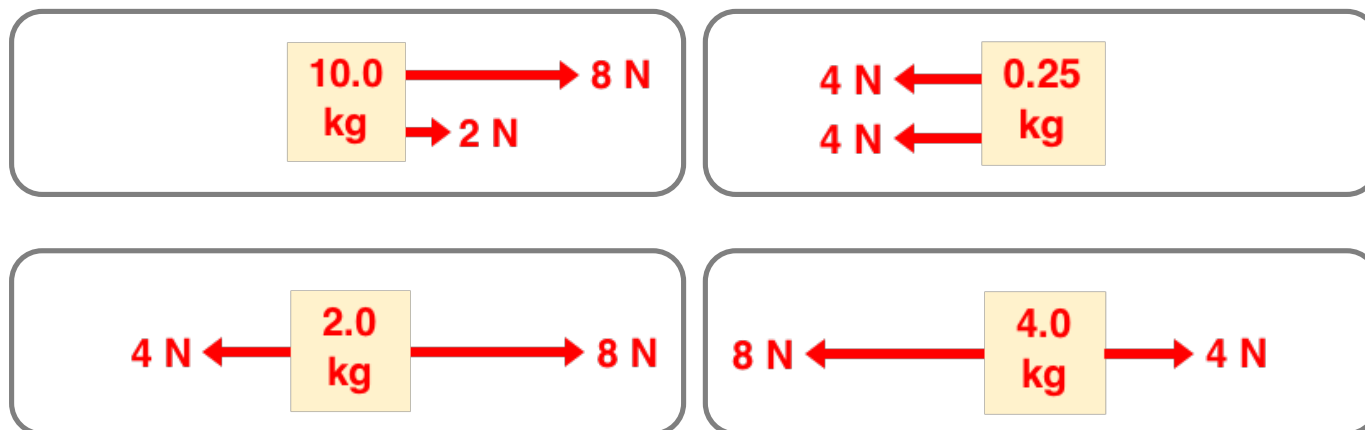
Question 10

Rank the objects according to **acceleration**; use 1 for the most negative and 4 for the most positive.



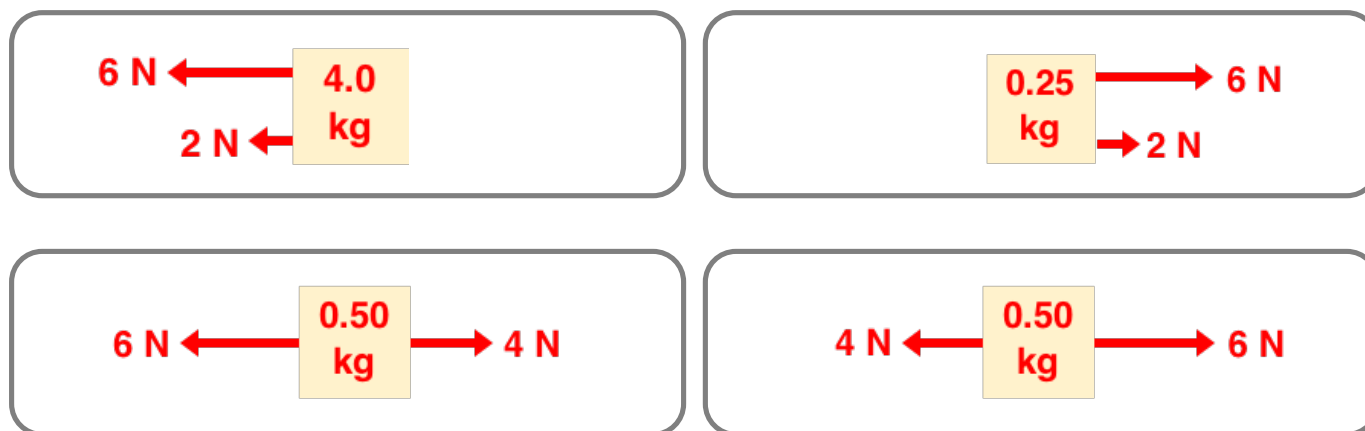
Question 11

Rank the objects according to **acceleration**; use 1 for the most negative and 4 for the most positive.



Question 12

Rank the objects according to **acceleration**; use 1 for the most negative and 4 for the most positive.

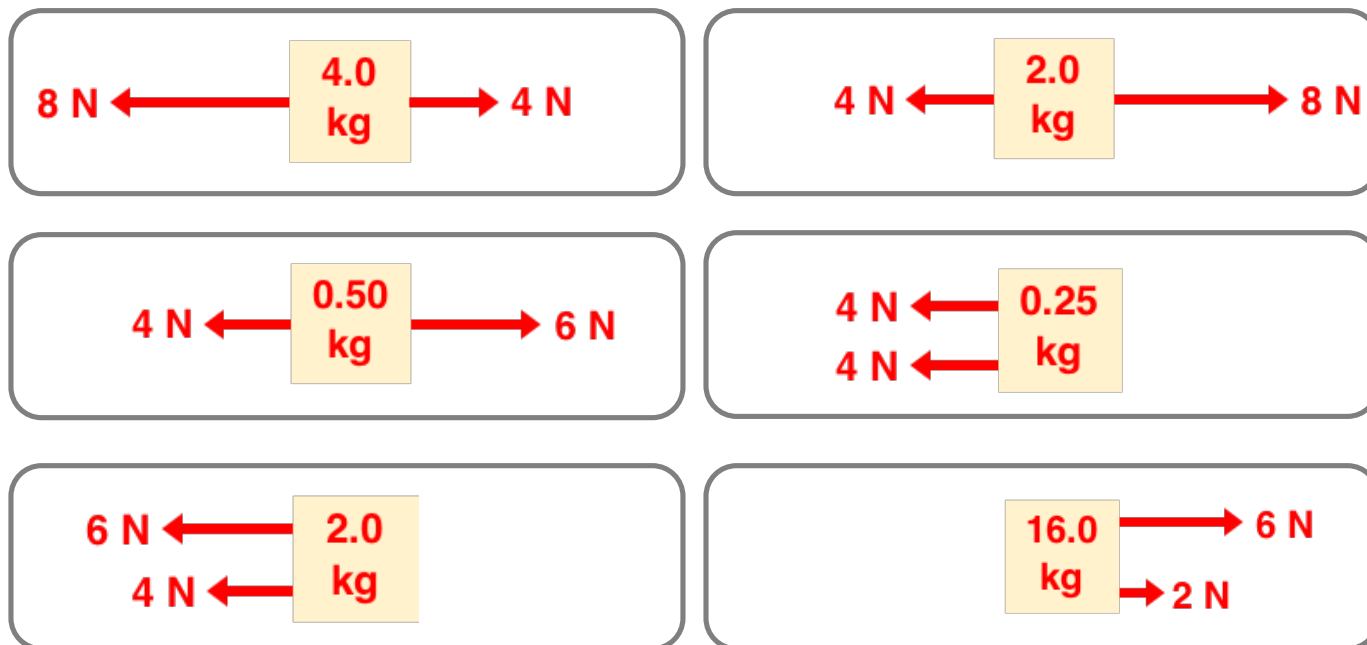


Master Difficulty Level

Question Group 5

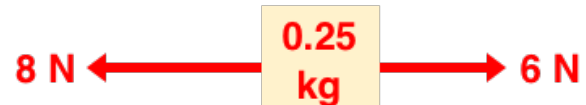
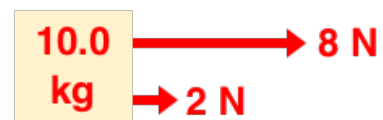
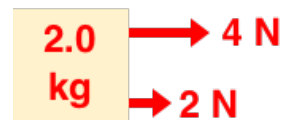
Question 13

Rank the objects according to **net force**; use 1 for the most negative and 6 for the most positive.



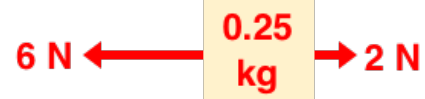
Question 14

Rank the objects according to **net force**; use 1 for the most negative and 6 for the most positive.



Question 15

Rank the objects according to **net force**; use 1 for the most negative and 6 for the most positive.



Question Group 6

Question 16

Rank the objects according to **net force**; use 1 for the most negative and 6 for the most positive.

4 N ← 2.0 kg → 8 N

6 N ← 0.50 kg → 4 N

4 N ← 0.25 kg
4 N ←

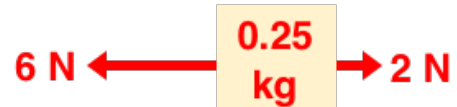
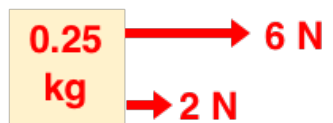
16.0 kg → 6 N
→ 2 N

2 N ← 0.50 kg → 8 N

6 N ← 0.25 kg → 2 N

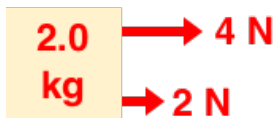
Question 17

Rank the objects according to **net force**; use 1 for the most negative and 6 for the most positive.



Question 18

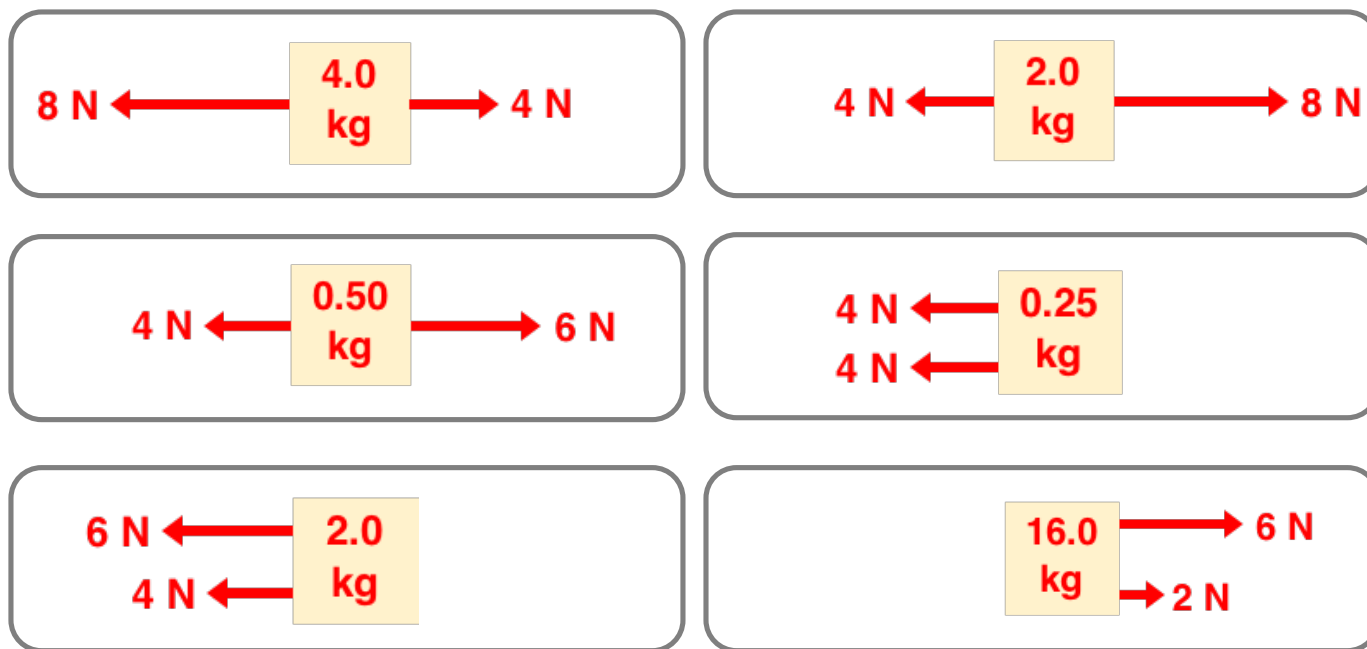
Rank the objects according to **net force**; use 1 for the most negative and 6 for the most positive.



Question Group 7

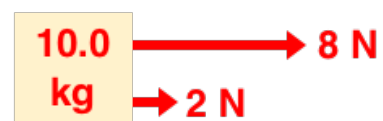
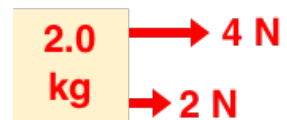
Question 19

Rank the objects according to **acceleration**; use 1 for the most negative and 6 for the most positive.



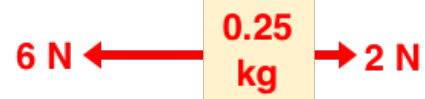
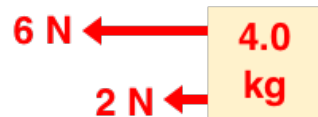
Question 20

Rank the objects according to **acceleration**; use 1 for the most negative and 6 for the most positive.



Question 21

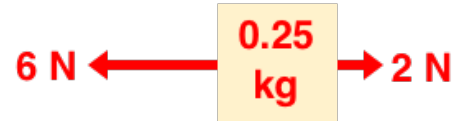
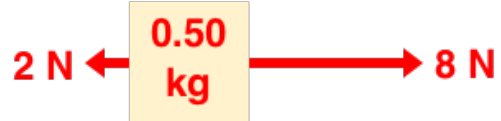
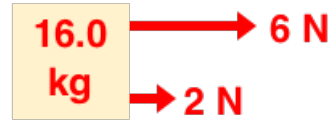
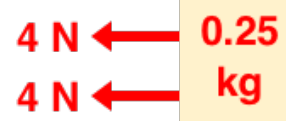
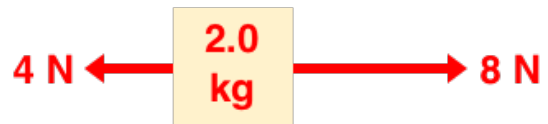
Rank the objects according to **acceleration**; use 1 for the most negative and 6 for the most positive.



Question Group 8

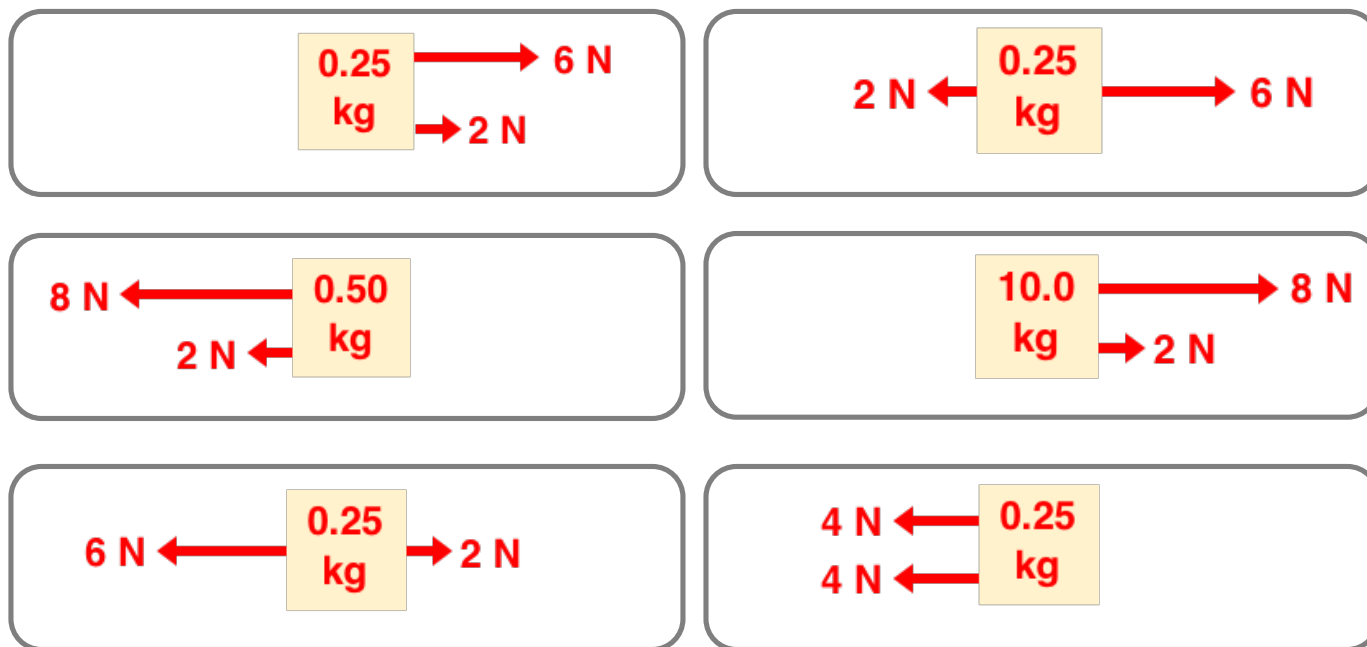
Question 22

Rank the objects according to **acceleration**; use 1 for the most negative and 6 for the most positive.



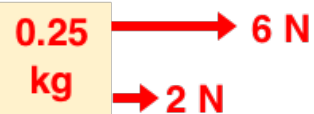
Question 23

Rank the objects according to **acceleration**; use 1 for the most negative and 6 for the most positive.



Question 24

Rank the objects according to **acceleration**; use 1 for the most negative and 6 for the most positive.

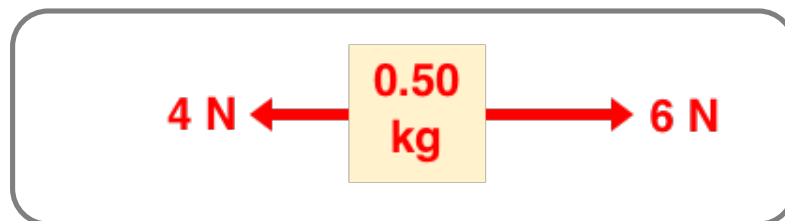
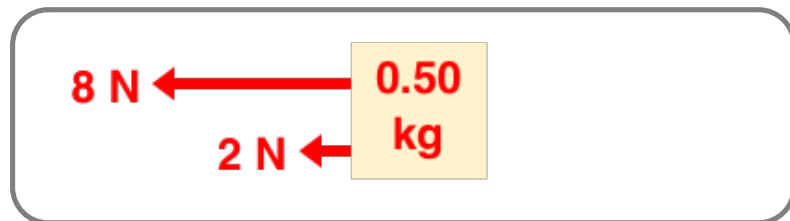
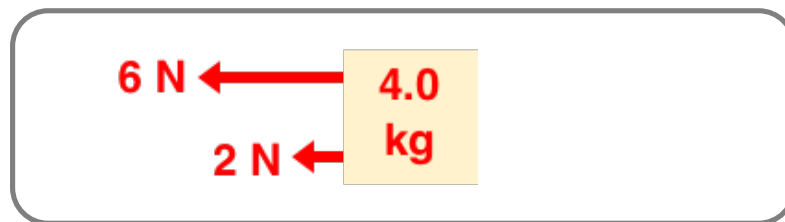
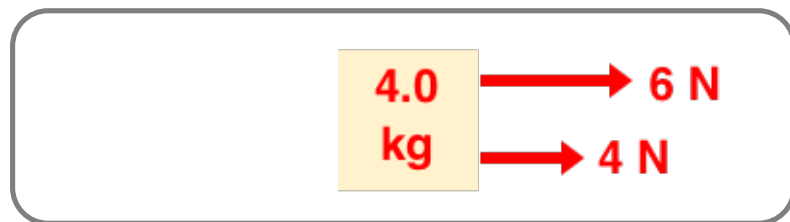
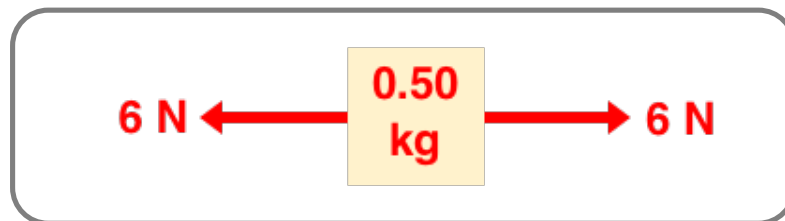
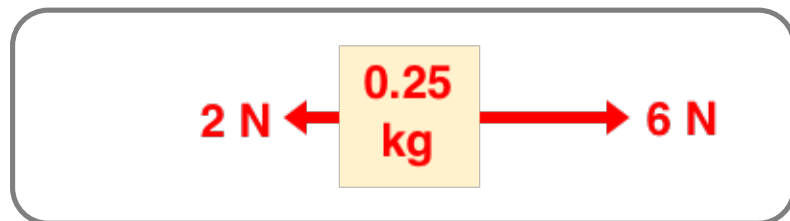
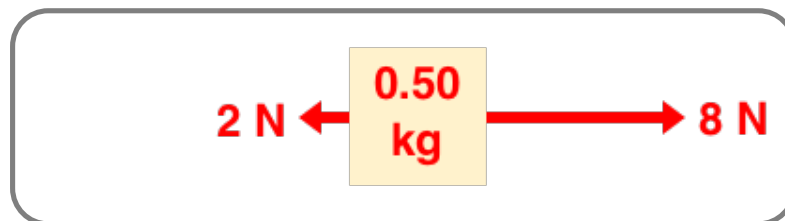
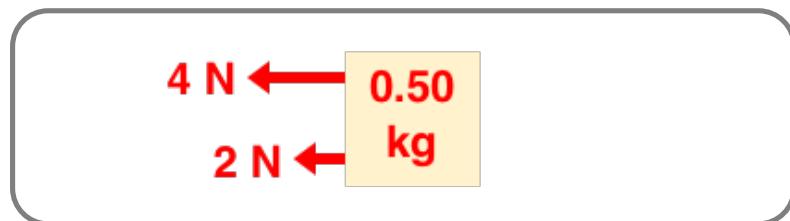


Wizard Difficulty Level

Question Group 9

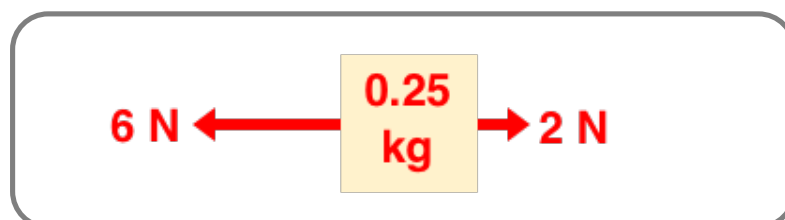
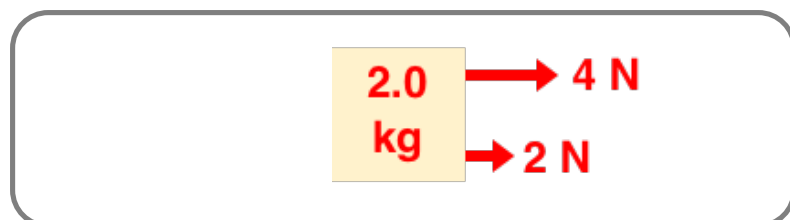
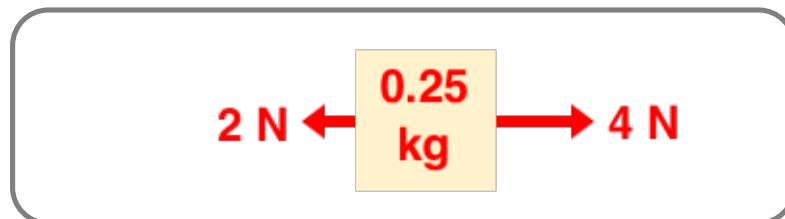
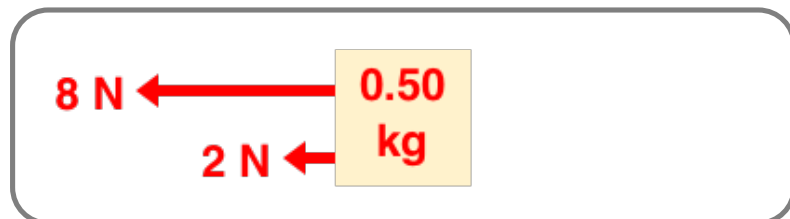
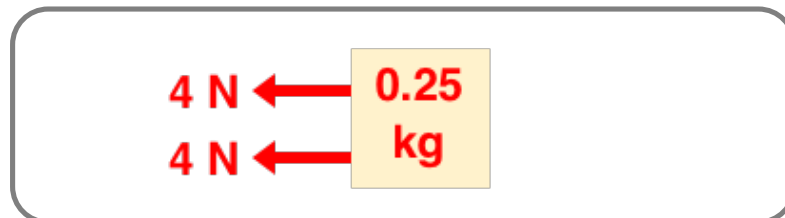
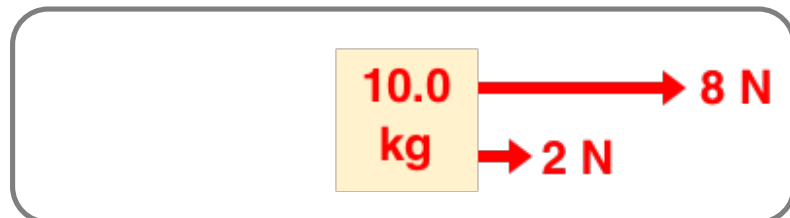
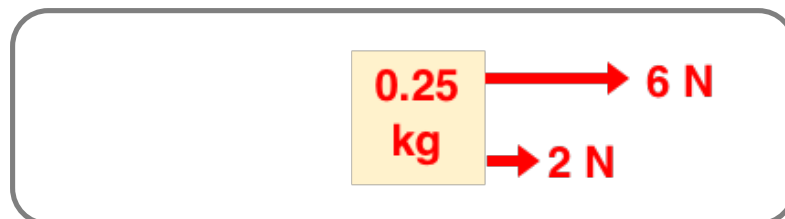
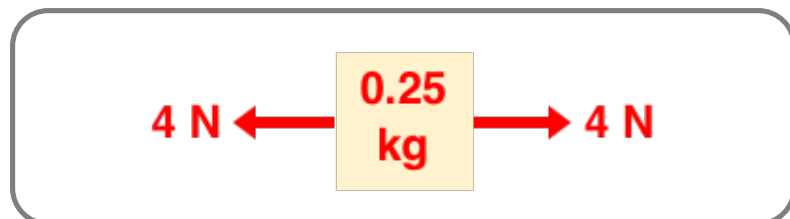
Question 25

Rank the objects according to **net force**; use 1 for the most negative and 8 for the most positive.



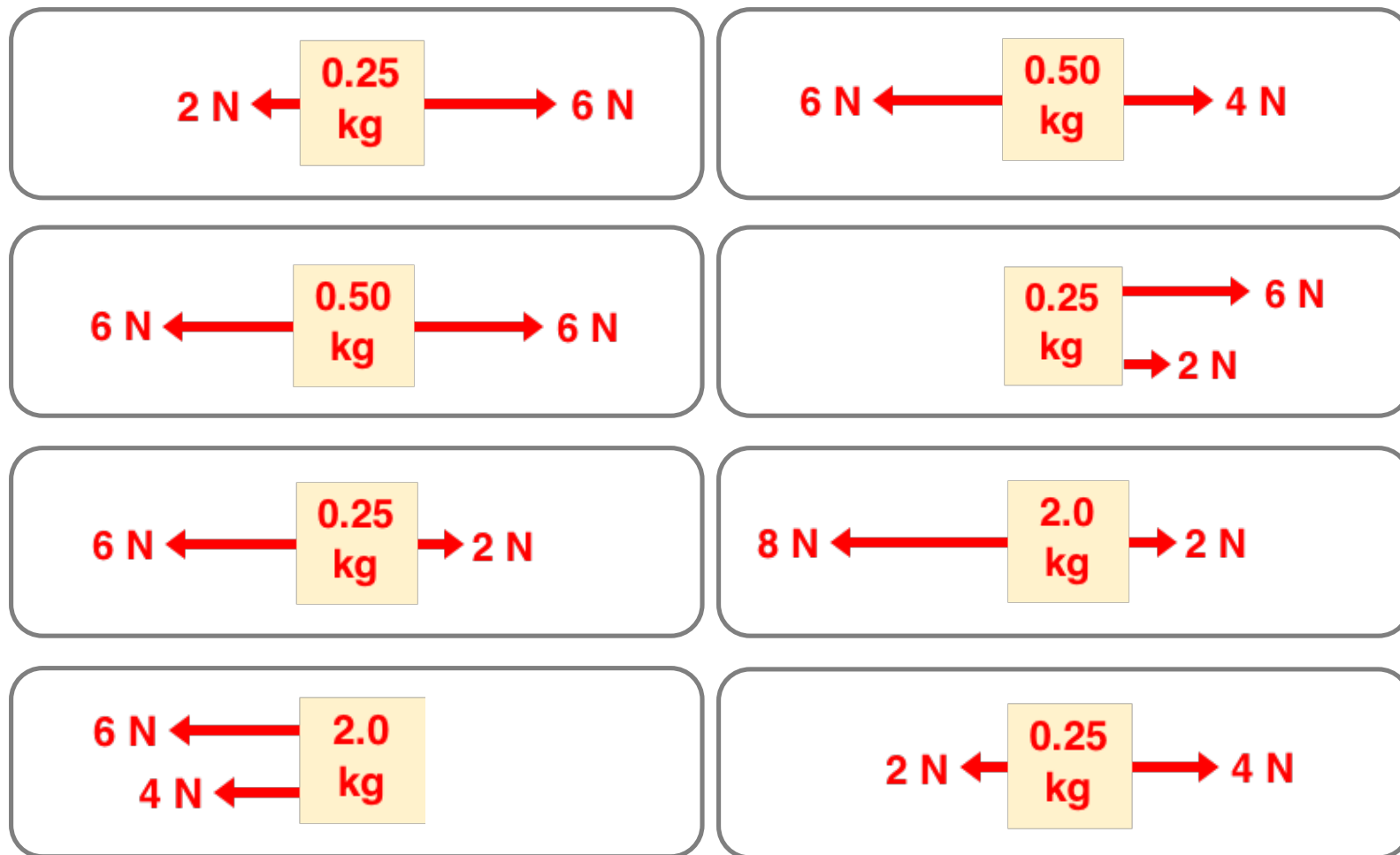
Question 26

Rank the objects according to **net force**; use 1 for the most negative and 8 for the most positive.



Question 27

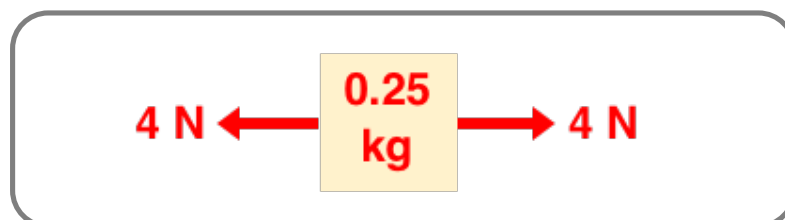
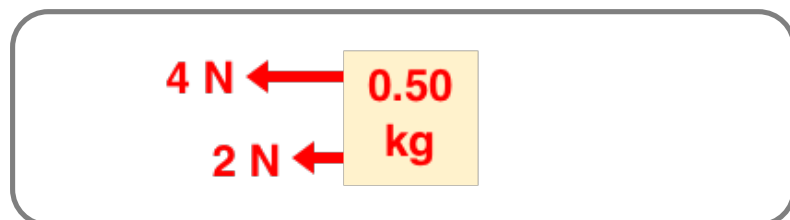
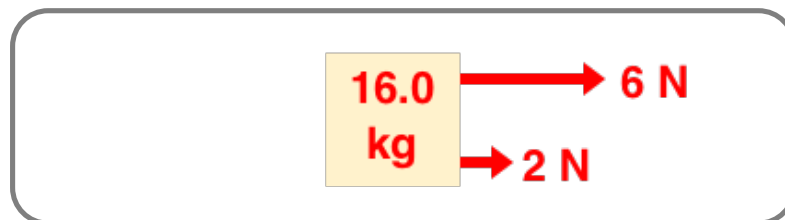
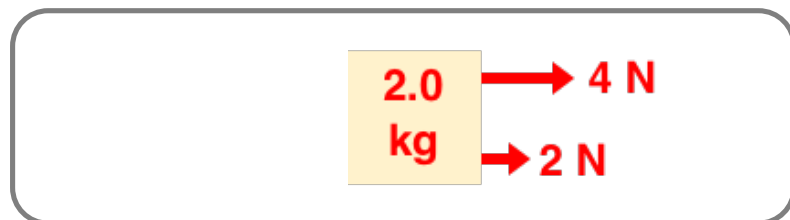
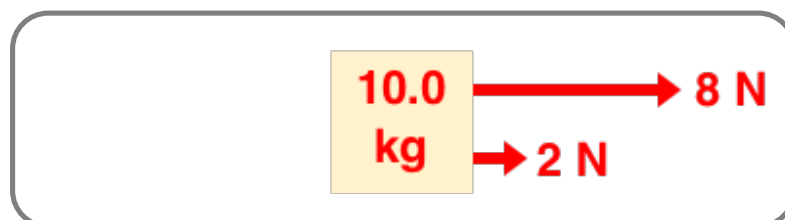
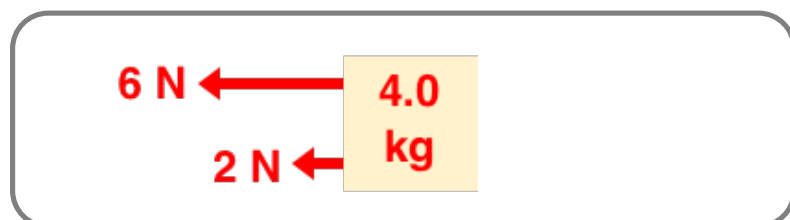
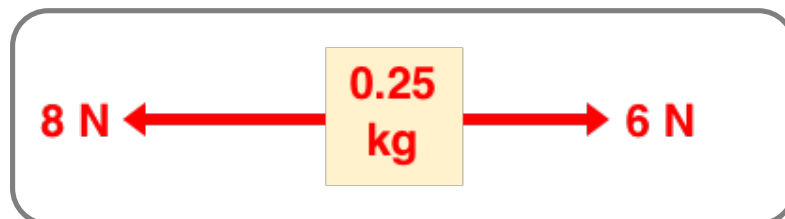
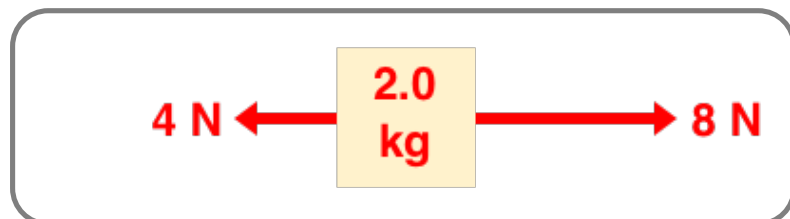
Rank the objects according to **net force**; use 1 for the most negative and 8 for the most positive.



Question Group 10

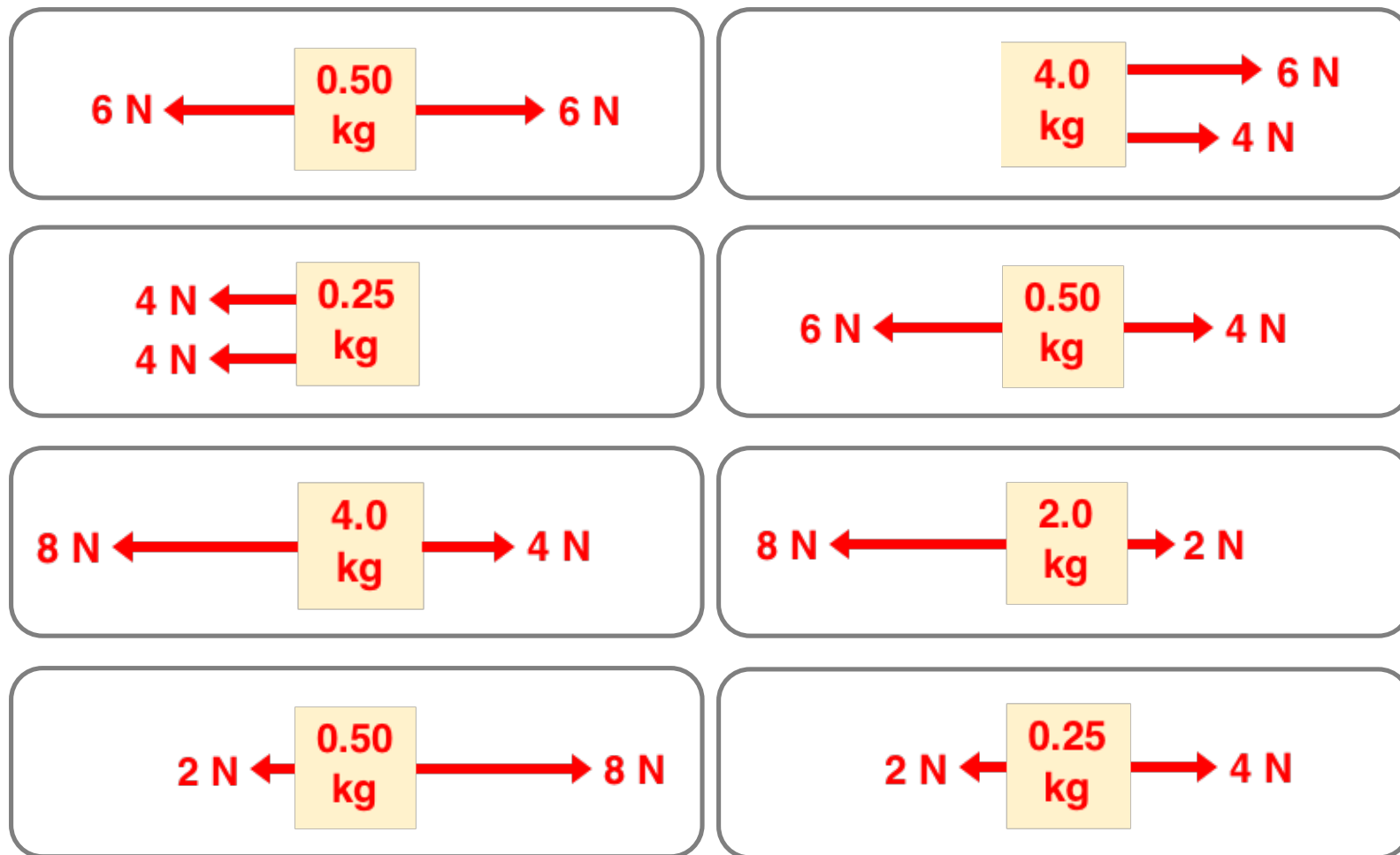
Question 28

Rank the objects according to **net force**; use 1 for the most negative and 8 for the most positive.



Question 29

Rank the objects according to **net force**; use 1 for the most negative and 8 for the most positive.



Question 30

Rank the objects according to **net force**; use 1 for the most negative and 8 for the most positive.

6 N ←
4 N ←
2.0 kg

4 N ← 0.50 kg → 6 N

4 N ← 2.0 kg → 8 N

4 N ← 0.25 kg
4 N ←

4 N ← 0.25 kg → 4 N

0.25 kg → 6 N
→ 2 N

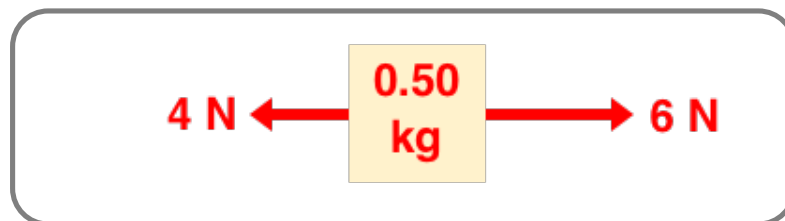
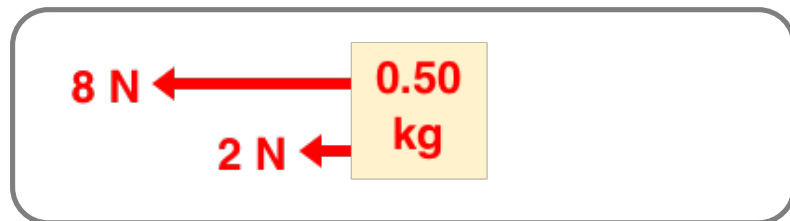
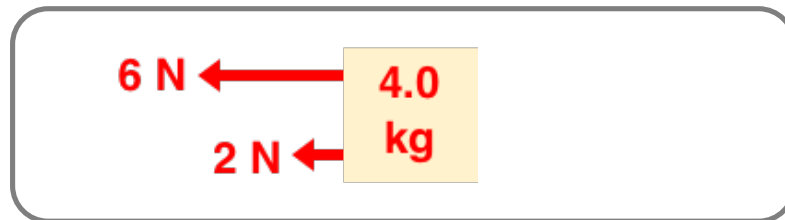
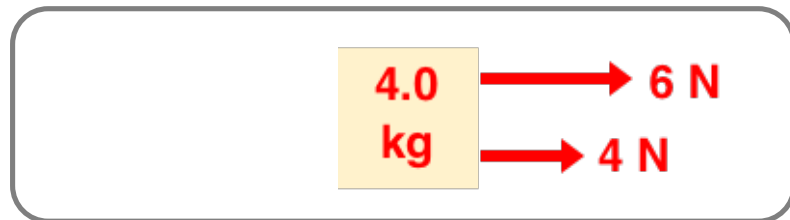
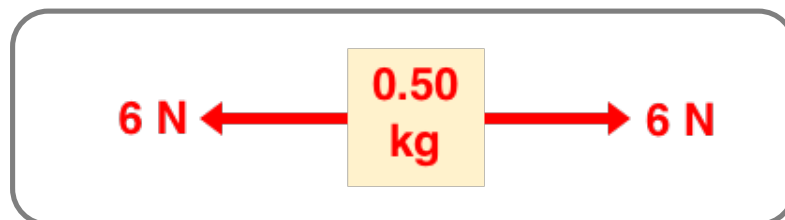
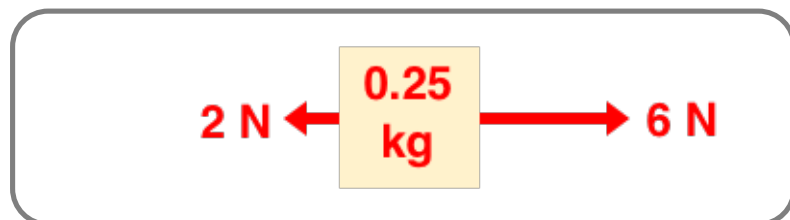
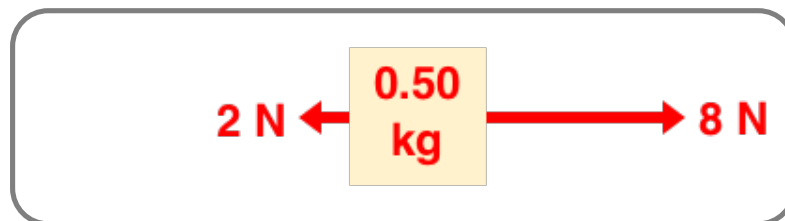
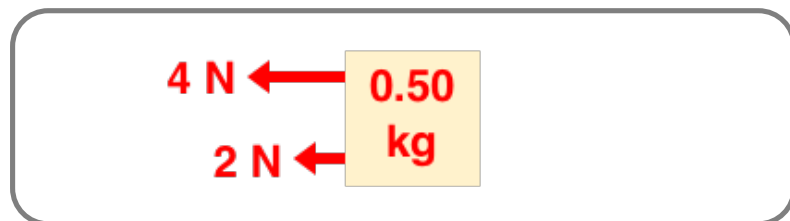
8 N ← 0.25 kg → 6 N

4 N ← 0.50 kg
2 N ←

Question Group 9

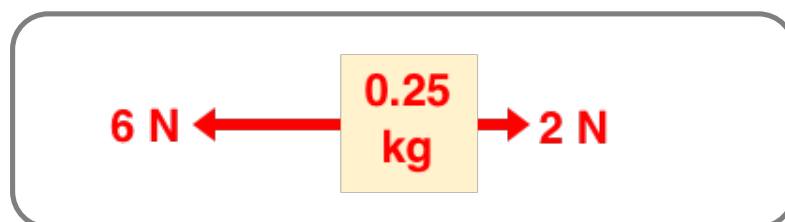
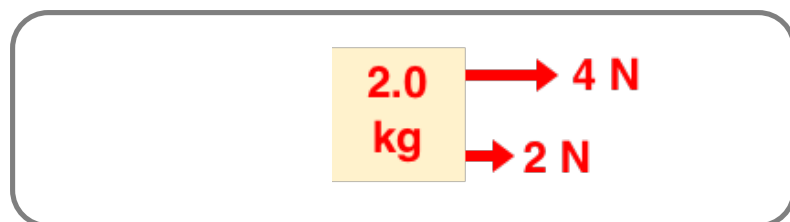
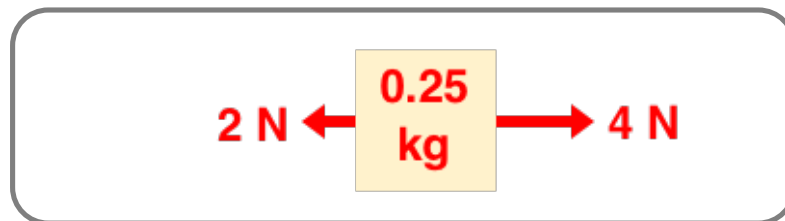
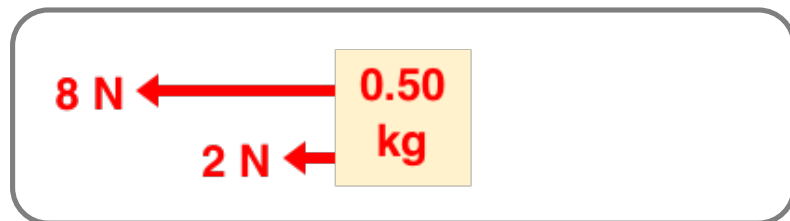
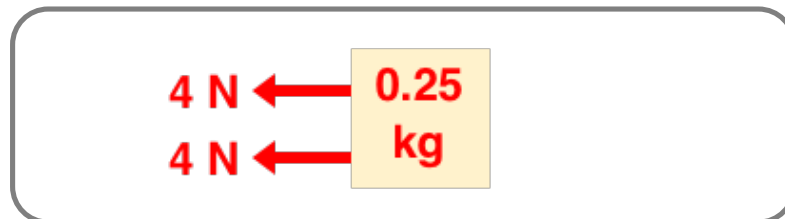
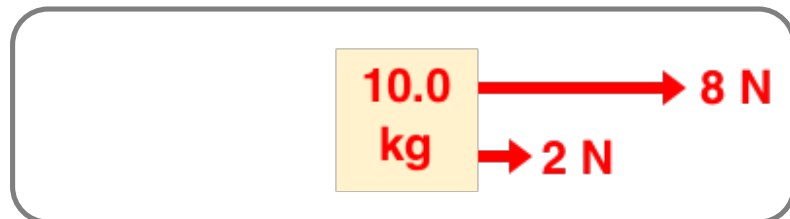
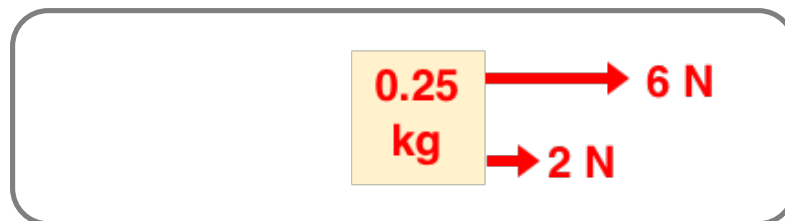
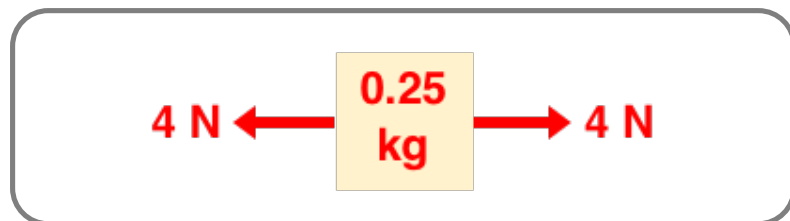
Question 31

Rank the objects according to **acceleration**; use 1 for the most negative and 8 for the most positive.



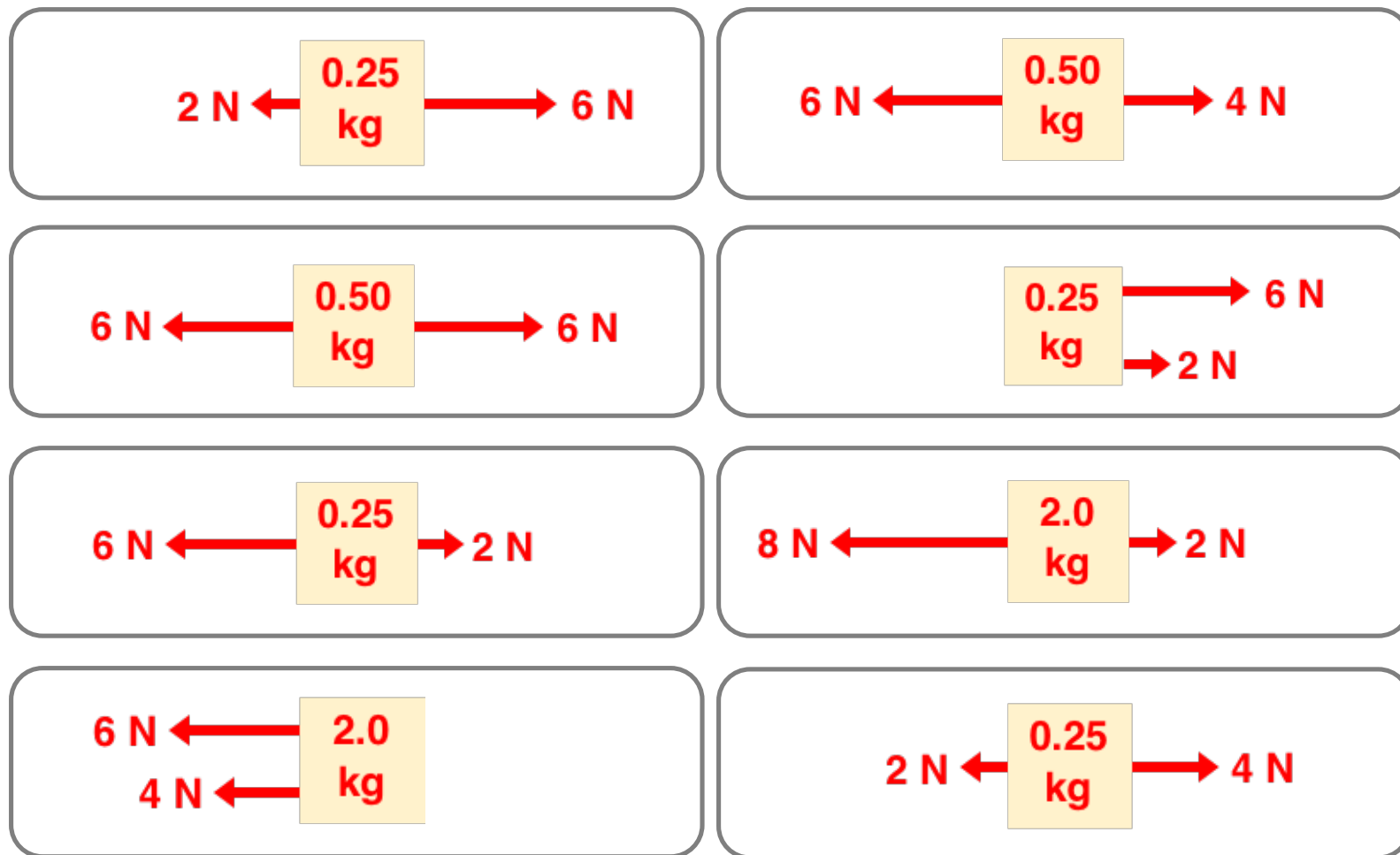
Question 3

Rank the objects according to **acceleration**; use 1 for the most negative and 8 for the most positive.



Question 33

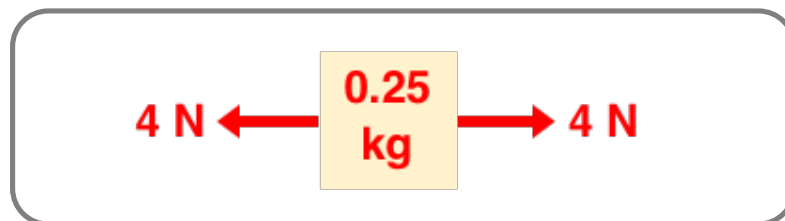
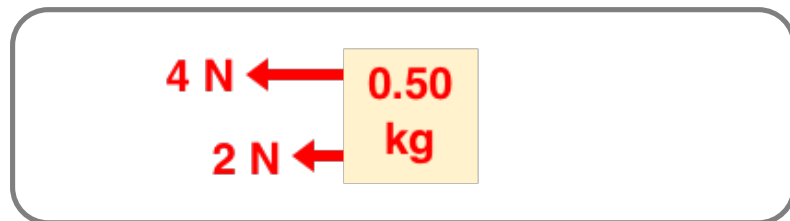
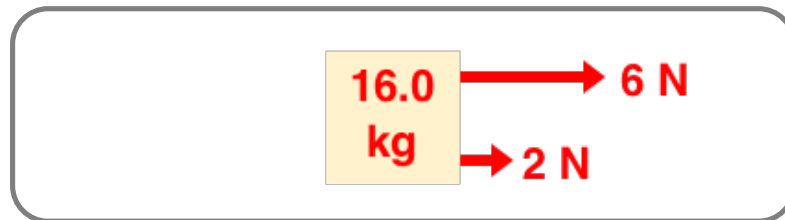
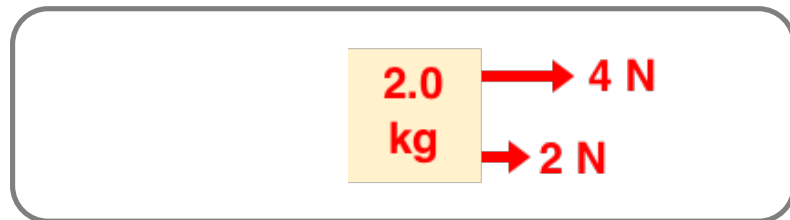
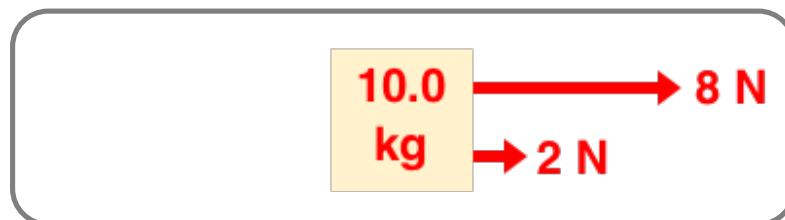
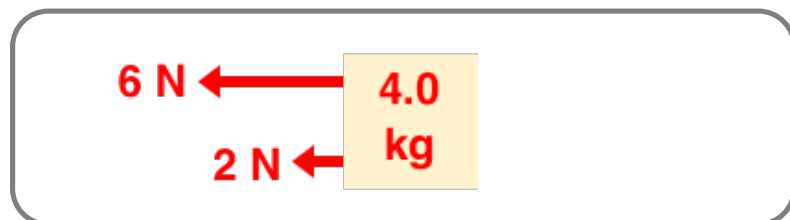
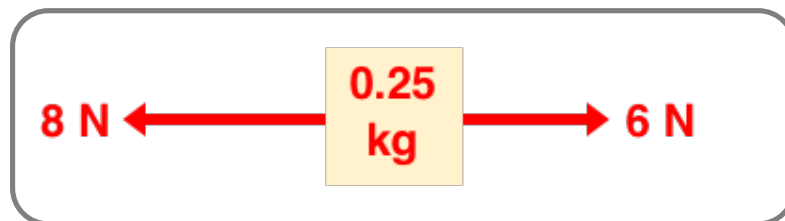
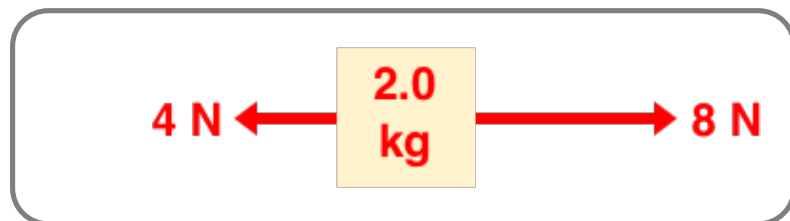
Rank the objects according to **acceleration**; use 1 for the most negative and 8 for the most positive.



Question Group 12

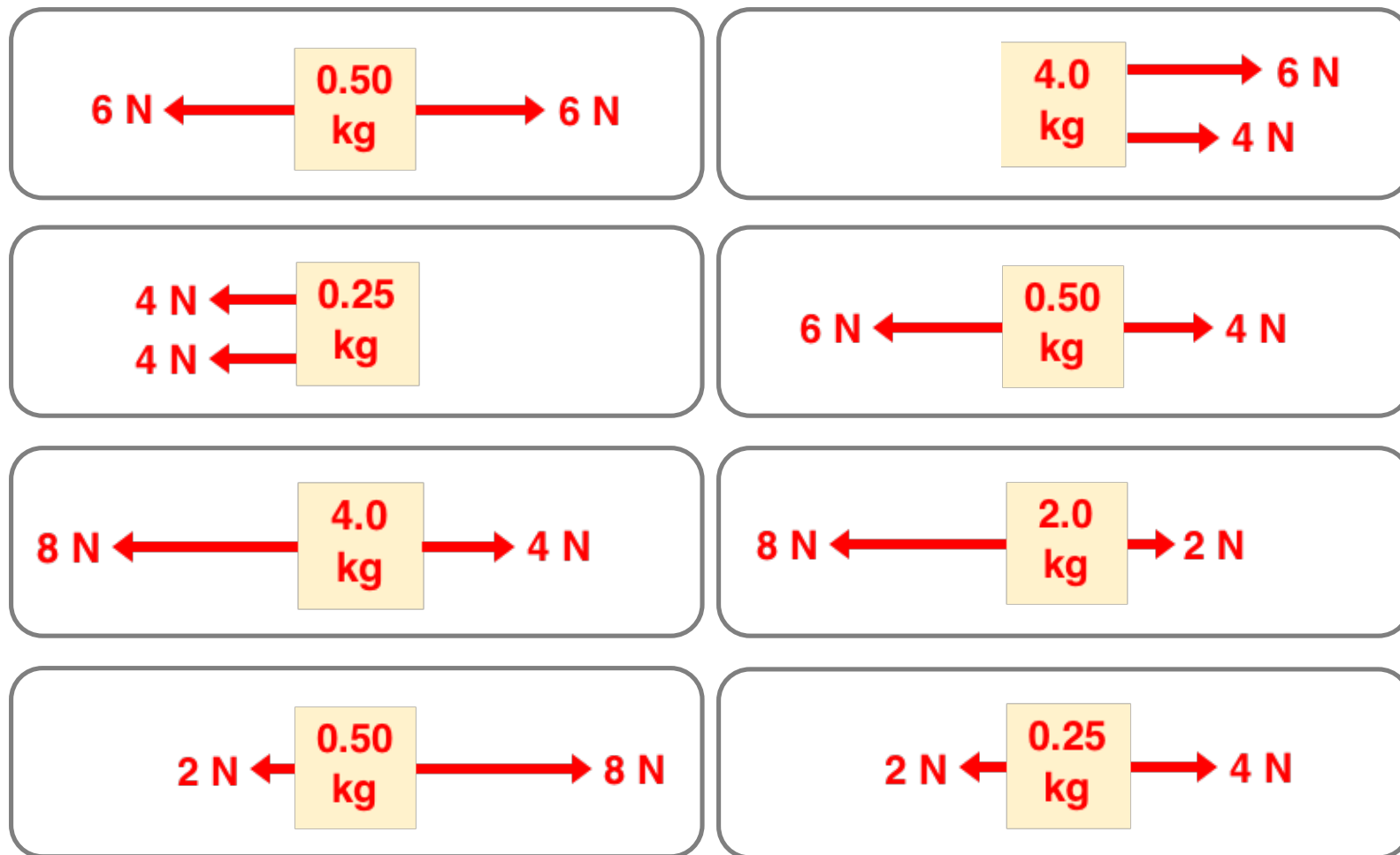
Question 34

Rank the objects according to **acceleration**; use 1 for the most negative and 8 for the most positive.



Question 35

Rank the objects according to **acceleration**; use 1 for the most negative and 8 for the most positive.



Question 36

Rank the objects according to **acceleration**; use 1 for the most negative and 8 for the most positive.

6 N ←
4 N ←
2.0 kg

4 N ←
0.50 kg → 6 N

4 N ←
2.0 kg → 8 N

4 N ←
0.25 kg ← 4 N

4 N ←
0.25 kg → 4 N

0.25 kg → 6 N
→ 2 N

8 N ←
0.25 kg → 6 N

4 N ←
0.50 kg ← 2 N