

What is Load Distribution Rule?

Worksheet

Load distribution rule is the law that limits weight per axle and tire to a safe level—typically 10 tonnes per axle for most vehicles. Proper loading keeps the center of gravity low and maintains steering, braking, and suspension control.

Questions

1. Load distribution rule main purpose?

- A) Reduce fuel
- B) Ensure safety and vehicle balance
- C) Increase speed
- D) Save tires

2. Typical axle weight limit?

- A) 5 tonnes
- B) 10 tonnes
- C) 20 tonnes
- D) Unlimited

3. Overload effect on braking?

- A) Improves
- B) Reduces stopping power
- C) No change
- D) Faster

4. Best cargo position?

- A) Rear only
- B) Roof
- C) Low, centered
- D) Uneven

5. A truck has max weight 15 tonnes (cargo). Front axle limit: 6 tonnes, rear: 10 tonnes. Load plan?

6. Driver loads 18 tonnes onto a 15-tonne truck. What's the problem?

7. Cargo placed only over rear axle. Effects?

8. Define: Load distribution rule purpose?

9. Define: Maximum weight typical per axle?

10. Define: Overloading effects?

Answer Key

1. B) Ensure safety and vehicle balance — Axle limits protect braking and steering integrity.
2. B) 10 tonnes — Standard vehicle spec; check manufacturer details.
3. B) Reduces stopping power — Weight increases stopping distance; fade worsens.
4. C) Low, centered — Lowers center of gravity; maintains stability.
5. Place 5 tonnes cargo over front axle, 10 tonnes over rear—within limits, center of gravity stays low.
6. Illegal, exceeds max total; reduces braking, affects steering, damages suspension and roads; subject to fines.
7. Rear axle overloaded, front loses traction, steering becomes light, braking ineffective, vehicle unstable.
8. Limit axle/tire weight for safe handling, braking, road safety and vehicle durability.
9. Around 10 tonnes per axle for standard vehicles; varies by vehicle spec.
10. Reduced braking, poor steering, suspension damage, illegal fines.

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