The	load	tο	he	moved	is a	nallet o	f stacked	cartons:
1110	IUau	w	טכ	IIIOVEU	100	ı panet u	ı stackeu	cartoris.

- Five cartons to a layer.

- Six layers on a pallet.
 Each carton is 22 kg.
 The pallet weighs 50 kg.

What is the	combined	weight of	the cartor	ns and	nallet?
VVIIGL IS LIIC	COLLIDILICA	WOIGHT	tille carter	io aria	paneti

S	Show all calculations.								

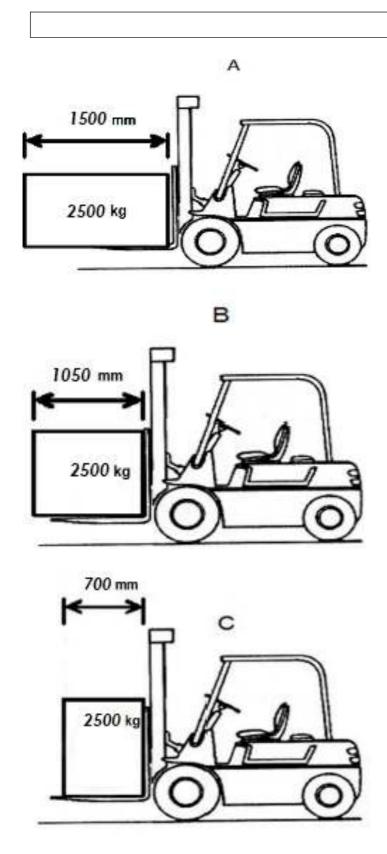
The	load	tο	he	moved	is a	nallet	Λf	stacked	drums.
1110	ioau	w	υC	IIIOVEU	10 0	Dallet	vı	SIGUNGU	urums.

- Four drums on the pallet. Each drum weighs 315 kg.

The pallet weighs 35 kg.
What is the combined weight of the drums and pallet?
Show all calculations.
Question 3
The load to be moved is bags of concrete stacked on a pallet:
• 78 bags on the pallet.
 78 bags on the pallet. Each bag weighs 30 kg. The pallet weighs 50 kg.
Each bag weighs 30 kg.
 Each bag weighs 30 kg. The pallet weighs 50 kg.
 Each bag weighs 30 kg. The pallet weighs 50 kg. What is the combined weight of the bags and pallet?
 Each bag weighs 30 kg. The pallet weighs 50 kg. What is the combined weight of the bags and pallet?
 Each bag weighs 30 kg. The pallet weighs 50 kg. What is the combined weight of the bags and pallet?

The forklifts in the diagram in **bellow** are rated at 2500 kg at 600 mm load centre. Which

load is within the capacity of the forklift?





Question 8

Question o
What is the rated capacity the fork can lift with the mast tilted forward 3 degrees?
Question 6
What is the rated capacity the fork can lift with the mast in a vertical position?
Question 7
Question 7
Can a load weighing 11234 kg, and with a load centre of 700 mm, be raised with the mast in the vertical position?

Can a load weighing **more** than 10000 kg be raised with the mast in the vertical position?

Your forklift has the following capacity/load plate:



Trained Operators and Mechanics Only

Read Operating Manual located on seat or in operator's compartment

Failure to follow operating, inspection, and maintenance instruction can cause serious injury or death!

CAPACITY WITH MAST VERTICAL AND EQUIPPED AS SHOWN



Lift Truck Model **GDLRAIS155KXH123** Serial No. ABXYZ14325

Attachment: 1981 mm (78in) Carriage + Sideshifting Fork Positioner NMHG 70L-FPS-c205 + 1830 mm Forks

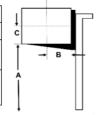
Truck Weight 9750 kg Tread Width 1844 mm Back Tilt 10.0 Degrees

<u>Tyre</u> <u>Front</u> <u>Rear</u>

 Size
 8.25-15/14-PLY Dual Pneu
 8.25-15/14-PLY Dual Pneu

 Pressure
 800 KPA (116 PSI)
 800 KPA (116 PSI)

MAXIMUM	Load Height	Load Centre			
CAPACITY	Dim. A	Dim. B	Dim. C		
6130 kg	4400 mm	915 mm	915 mm		
0 kg	0 mm	0 mm	0 mm		



For each load below, complete the required **calculations and/or reasoning** to determine whether the load is safe to lift. You **must** show your calculations and indicate your answer with a yes or no to the question with a tick (\checkmark).

Load	Calculations/Reason	Is this load safe to lift?
Load 1 A pallet 1265mm length by 1265mm width with a height of 1900 mm and a total weight of 1800 kg.		☐ Yes ☐ No
Load 2 A container containing a 6500 kg load. Note: The tare weight on the container is 2300 kg. The container size is 2.4m wide, 2.5m high and 2.4m long.		☐ Yes ☐ No

Tho	heal	to	ha	moved	ic ·	2 1	hallet	٥f	ctacke	hc	cartons:
1116	iuau	w	υe	IIIOVEU	15 (a١	Dallet	UΙ	Stackt	₹u	Carlons.

- Six cartons to a layer.
 Four layers on a pallet.
 Each carton is 18 kg.
 The pallet weighs 45 kg.

What is the	combined	weight of	the	cartons	and	pallet?

S	Show all calculations.								

The	load	tο	he	moved	is a	nallet	Λf	stacked	drums.
1110	ioau	w	υC	IIIOVEU	10 0	Dallet	vı	SIGUNGU	urums.

- Three drums on the pallet.
- Each drum weighs 215 kg.
 The pallet weighs 35 kg.

• The pallet weighs 35 kg.
What is the combined weight of the drums and pallet?
Show all calculations.
Question 12
The load to be moved is bags of concrete stacked on a pallet:
• 62 bags on the pallet.
Each bag weighs 25 kg.The pallet weighs 50 kg.
What is the combined weight of the bags and pallet?
Show all calculations.

TOYOTA ELECTRIC FORKLIFT TRUCK
MODEL 7FBCHU25 SERIAL NO.
MAST, FSU BACK TILT 5 ATTACH PUSH PULL
TYPE ES VOLTAGE 36 V BATTERY TYPE EO MAX. AMPERE HOUR CAPACITY 1540 AH
FRONT 35 in TIRE FR 21×7×15/SOLID
TRUCK WEIGHT 8020 Ib BATTERY WEIGHT 3000 Ib/ 3555 Ib
W/O BATTERY 3640 kg MIN./MAX. 1360 kg/ 1613 kg ACCURACY±5% RATED CAPACITY WITH VERTICAL MAST EQUIPPED AT MAX. LIFT HEIGHT "A" AS SHOWN
A B C CAPACITY
in 189 24. Ø 3500 Ib MEETS OR EXCEEDS DESIGN
B mm 4800 600 0 1550 kg SPECIFICATIONS OF ASME/
B A C In 189 SO 2800 Ib ANSI B56.1 IN EFFECT ON THE DATE OF MANUFACTURE
mm 4800 760 0 1250 kg THE DATE OF MANUFACTURE
Question 13
What is the rated capacity the fork can lift with the mast tilted forward 3 degrees?
Question 14
What is the rated capacity the fork can lift with the mast in a vertical position?
Question 15
Question 15
Can a load weighing 1560 kg, and with a load centre of 800 mm, be raised with the mast in the vertical position?
Question 16
Can a load weighing more than 1550 kg be raised with the mast in the vertical position?

Your forklift has the following capacity/load plate:



Trained Operators and Mechanics Only

Read Operating Manual located on seat or in operator's compartment

Failure to follow operating, inspection, and maintenance instruction can cause serious injury or death!

CAPACITY WITH MAST VERTICAL AND EQUIPPED AS SHOWN



Lift Truck Model **GDLRAIS155KXH123** Serial No. ABXYZ14325

Attachment: 1981 mm (78in) Carriage + Sideshifting Fork Positioner NMHG 70L-FPS-c205 + 1830 mm Forks

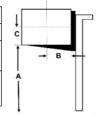
Truck Weight 9750 kg Tread Width 1844 mm Back Tilt 10.0 Degrees

<u>Tyre</u> <u>Front</u> <u>Rear</u>

 Size
 8.25-15/14-PLY Dual Pneu
 8.25-15/14-PLY Dual Pneu

 Pressure
 800 KPA (116 PSI)
 800 KPA (116 PSI)

MAXIMUM	Load Height	Load Centre			
CAPACITY	Dim. A	Dim. B	Dim. C		
6130 kg	4400 mm	915 mm	915 mm		
0 kg	0 mm	0 mm	0 mm		



For each load below, complete the required **calculations and/or reasoning** to determine whether the load is safe to lift. You **must** show your calculations and indicate your answer with a yes or no to the question with a tick (\checkmark).

Load	Calculations/Reason	Is this load safe to lift?
Load 1 A pallet 1265mm length by 1265mm width with a height of 1650 mm and a total weight of 1900 kg.		☐ Yes ☐ No
Load 2 A container containing a 6000 kg load. Note: The tare weight on the container is 2300 kg. The container size is 2.4m wide, 2.5m high and 2.4m long.		☐ Yes ☐ No

The	load	tο	he	moved	is a	a nallet	٥f	stacked	cartons:
1110	IUau	w	υc	IIIOVEU	10 (a Daliet	vı	SIGUNEU	cartons.

- Five cartons to a layer.
 Four layers on a pallet.
 Each carton is 28 kg.
 The pallet weighs 60 kg.

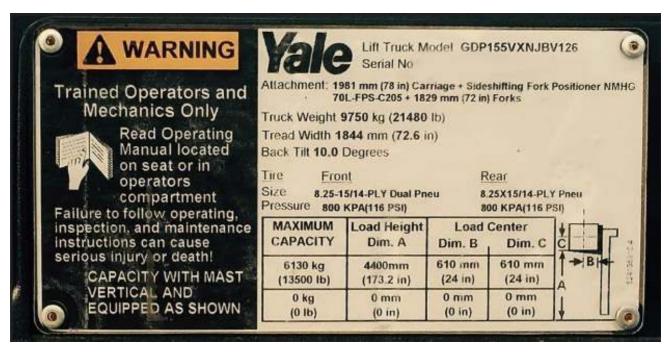
What is the	e combined	weight of	the	cartons	and	pallet?
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			00.00.10	~	Paner.

S	Show all calculations.			

The	load	tο	he	moved	is a	nallet	Λf	stacked	drums.
1110	ioau	w	υC	IIIOVEU	าง a	Dallet	vı	SIGUNGU	urums.

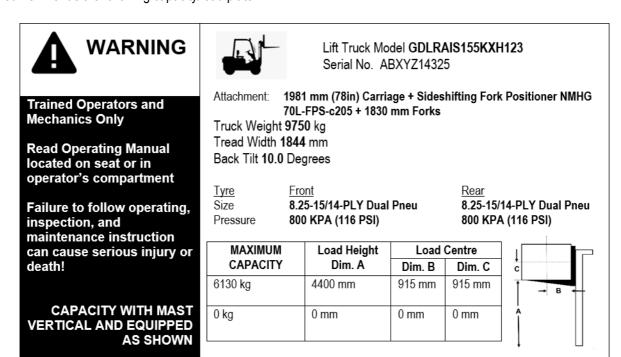
- Five drums on the pallet.
- Each drum weighs 275 kg.
 The pallet weighs 50 kg.

• The pallet weighs 50 kg.
What is the combined weight of the drums and pallet?
Show all calculations.
Question 20
The load to be moved is bags of concrete stacked on a pallet:
92 bags on the pallet.
Each bag weighs 15 kg.The pallet weighs 35 kg.
What is the combined weight of the bags and pallet?
What is the combined weight of the bags and pallet?
What is the combined weight of the bags and pallet? Show all calculations.



Question 21
What is the rated capacity the fork can lift with the mast tilted forward 3 degrees?
Question 22
What is the rated capacity the fork can lift with the mast in a vertical position?
Question 23
Can a load weighing 6130 kg, and with a load centre of 700 mm, be raised with the mast in the vertical position?
Question 24
Can a load weighing more than 6130 kg be raised with the mast in the vertical position?

Your forklift has the following capacity/load plate:



For each load below, complete the required **calculations and/or reasoning** to determine whether the load is safe to lift. You **must** show your calculations and indicate your answer with a yes or no to the question with a tick (\checkmark).

Load	Calculations/Reason	Is this load safe to lift?
Load 1 A pallet 1090mm length by 1650 mm width with a height of 1350 mm and a total weight of 3200 kg.		☐ Yes ☐ No
Load 2 A container containing a 4950 kg load. Note: The tare weight on the container is 2300 kg. The container size is 2.4m wide, 2.5m high and 2.4m long.		☐ Yes ☐ No