

# **MANITOWOC**

(LBC) LOAD CHART

# QUESTIONS

CRANE ELITE PREP SCHOOL
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#### 1. What is the net capacity, lifting off the main boom over the rear?

Outriggers: N/A

Counterweight: Full

Crawlers: Retracted

Main boom length: 230'

Main boom angle: N/A

Radius: 160'

Block: 2,650 lbs. (2 parts)

Ball: 500 lbs.

Wire rope main: 1"

Wire rope jib: 1" Hanging 10' from tip.

Jib: 30'

Jib offset: 25<sup>0</sup>

Rigging: 285 lbs.

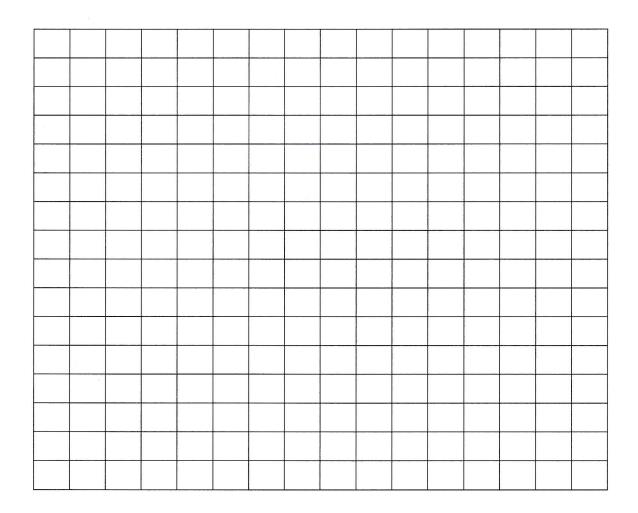
Other: N/A

a) 4,818

b) 6,155

c) 7,233

d) 4,533



### 2. What is the net capacity, lifting off the main boom over the side?

Outriggers: N/A

Counterweight: Full

Crawlers: Extended

Main boom length: 160'

Main boom angle: N/A

Radius: 79'

Block: 2,650 lbs. (5 parts)

Ball: 500 lbs.

Wire rope main: 1"

Wire rope jib: 1" Hanging 65' from tip.

Jib: 40'

Jib offset: 5<sup>0</sup>

Rigging: 1,155 lbs.

Other: Lifting Beam 1,765 lbs.

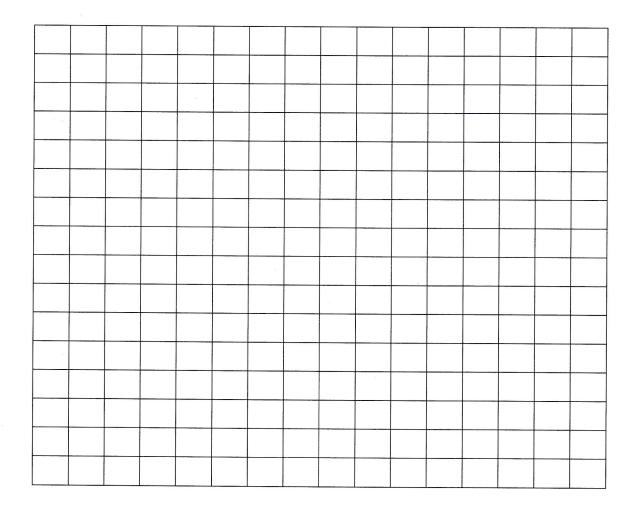
Wire Rope: 2 lbs. per foot

a) 46,410

b) 49,910

c) 49,795

d) 46,910



#### 3. What is the net capacity, lifting off the main boom over the rear?

Outriggers: N/A

Counterweight: Full

Crawlers: Extended

Main boom length: 190'

Main boom angle: N/A

Radius: 176'

Block: 2,650 lbs. (8 parts)

Ball: N/A

Wire rope main: 1"

Wire rope jib: N/A

Jib: N/A

Jib offset: N/A

Rigging: 975 lbs.

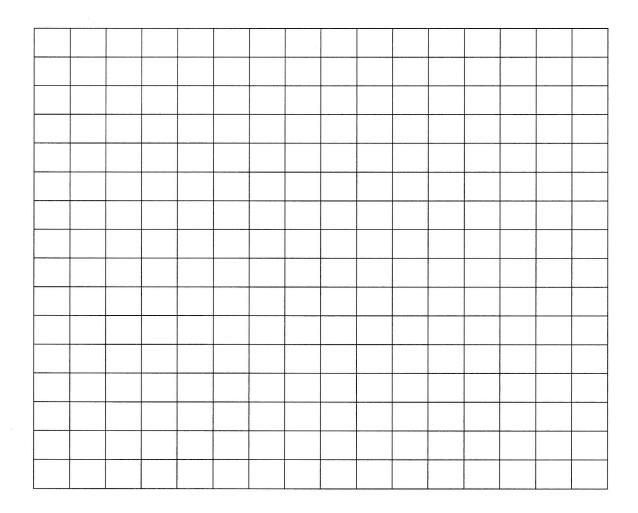
Other: N/A

a) 7,463

b) 8,775

c) 8,424

d) 6,463



#### 4. What is the net capacity, lifting off the main boom over the side?

Outriggers: N/A

Counterweight: Full

Crawlers: Retracted

Main boom length: 210'

Main boom angle: N/A

Radius: 113'

Block: 2,650 lbs. (5 parts)

Ball: N/A

Wire rope main: 1"

Wire rope jib: N/A

Jib: N/A

Jib offset: N/A

Rigging: 1,150 lbs.

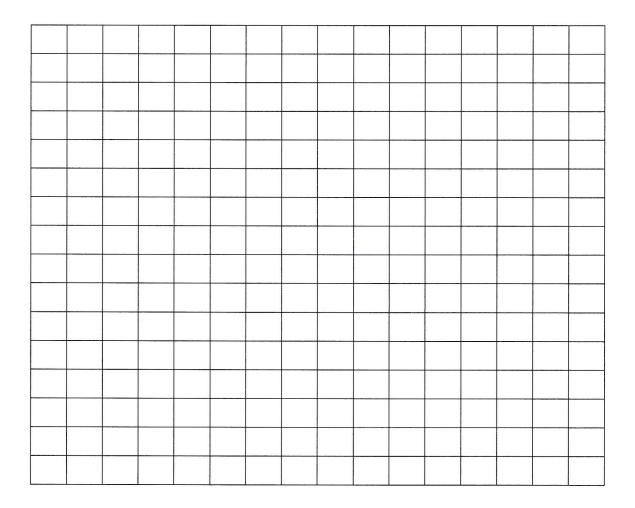
Other: Lifting Beam 1,250 lbs.

a) 20,880

b) 18,680

c) 19,830

d) 19,930



5. What is the maximum radius that an 189,300 lb. load can be lifted using the main boom over the rear?

Outriggers: N/A

Ball: 500 lbs.

Counterweight: Full

Wire rope main: 1"

Crawlers: Extended

Wire rope jib: 1" Hanging 25' from tip.

Main boom length: 80'

Jib: 50'

Main boom angle: N/A

Jib offset: 15<sup>0</sup>

Radius: N/A

Rigging: 1,555 lbs.

Block: 2,650 lbs. (8 parts)

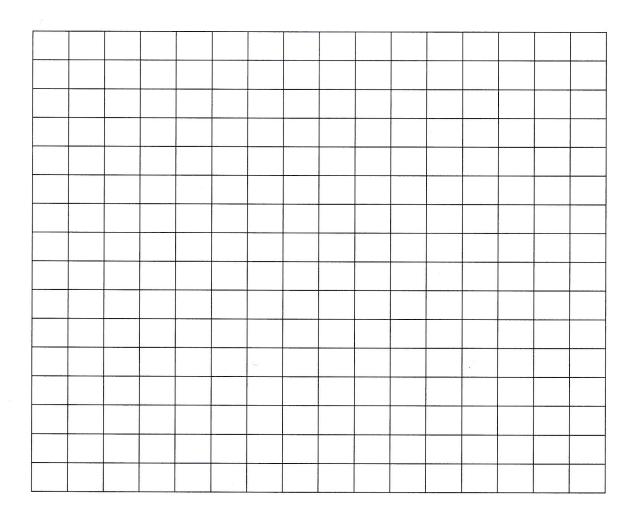
Other: N/A

a) 30'

b) 34'

c) 36'

d) 38'



#### 6. What is the net capacity, lifting off the jib over the side?

Outriggers: N/A

Ball: 500 lbs.

Counterweight: Full

Wire rope main: N/A

Crawlers: Extended

Wire rope jib: 1"

Main boom length: 120'

Jib: 40'

Main boom angle: N/A

Jib offset: 25<sup>0</sup>

Radius: 75'

Rigging: 285 lbs.

Block: N/A

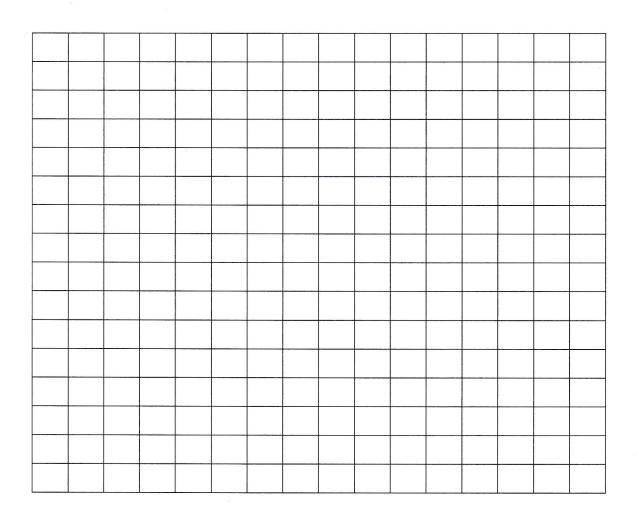
Other: N/A

a) 28,019

b) 28,815

Wire Rope: 2 lbs. per foot

c) 28,419 d) 28,804



#### 7. What is the net capacity, lifting off the jib over the rear?

Outriggers: N/A

Counterweight: Full

Crawlers: Extended

Main boom length: 250'

Main boom angle: N/A

Radius: 143'

Block: N/A

Ball: 500 lbs.

Wire rope main: N/A

Wire rope jib: 1"

Jib: 30'

Jib offset: 5<sup>0</sup>

Rigging: 645 lbs.

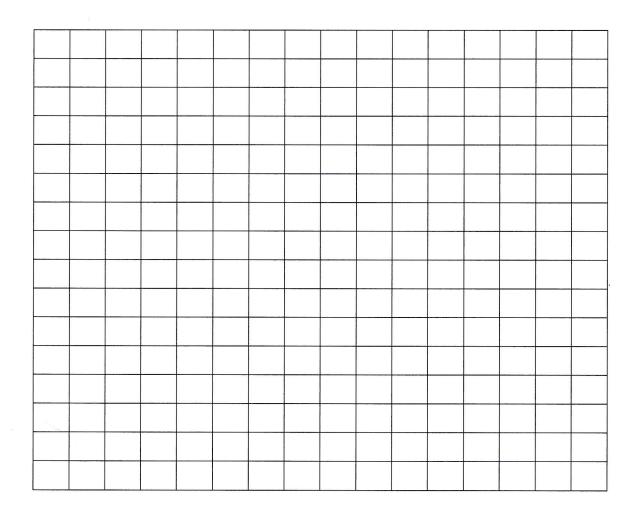
Other: Lifting Beam 750 lbs.

a) 15,609

b) 16,105

c) 16,359

d) 16,855



## 8. What is the net capacity, lifting off the jib over the side?

Outriggers: N/A

Counterweight: Full

Crawlers: Extended

Main boom length: 190'

Main boom angle: N/A

Radius: 89'

Block: 2,650 lbs. (2 parts)

Ball: N/A

Wire rope main: N/A

Wire rope jib: 1"

Jib: 30'

Jib offset: 250

Rigging: 290 lbs.

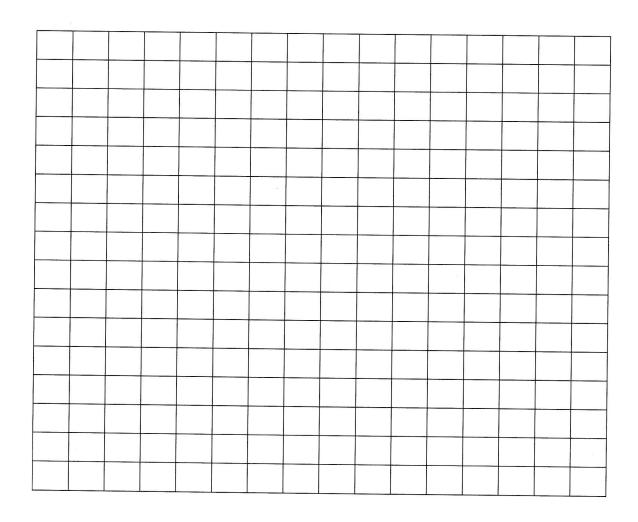
Other: Spreader Bar 1,131 lbs.

a) 37,319

b) 37,029

c) 40,684

d) 36,197



#### 9. What is the net capacity, lifting off the jib over the front?

Outriggers: N/A

Counterweight: Full

Crawlers: Extended

Main boom length: 110'

Main boom angle: N/A

Radius: 95'

Block: 2,650 lbs. (6 parts)

Ball: 500 lbs.

Wire rope main: 1" Hanging 35' from tip.

Wire rope jib: 1"

Jib: 40'

Jib offset: 50

Rigging: 975 lbs.

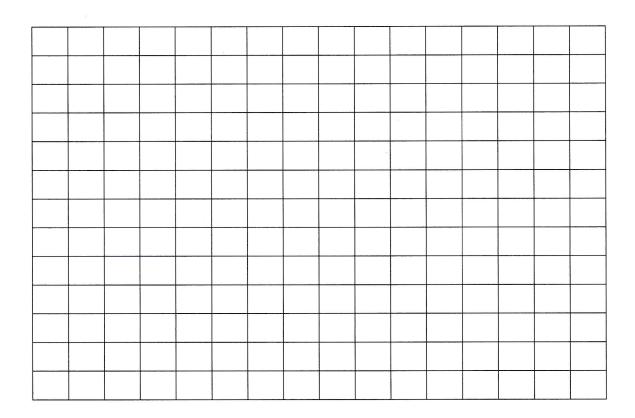
Other: Lifting Beam 1,635 lbs.

a) 24,540

b) 23,072

c) 23,515

d) 24,292



#### 10. What is the net capacity, lifting off the jib over the rear?

Outriggers: N/A

Counterweight: Full

Crawlers: Extended

Main boom length: 220'

Main boom angle: N/A

Radius: 168'

Block: N/A

Ball: 500 lbs.

Wire rope main: N/A

Wire rope jib: 1"

Jib: 30'

Jib offset: 5<sup>0</sup>

Rigging: 1,265 lbs.

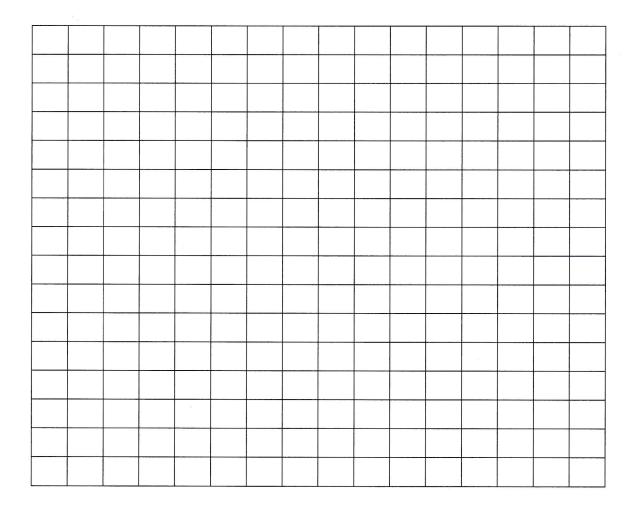
Other: N/A

a) 12,935

b) 13,808

c) 12,435

d) 12,043



#### 11. What is the gross capacity, lifting off the main boom over the front?

Outriggers: N/A

Counterweight: Full

Crawlers: Retracted

Main boom length: 270'

Main boom angle: N/A

Radius: 105'

Block: 2,650 lbs. (6 parts)

Ball: 500 lbs.

Wire rope main: 1"

Wire rope jib: 1" Hanging 10' from tip.

Jib: 40'

Jib offset: 5<sup>0</sup>

Rigging: 1,200 lbs.

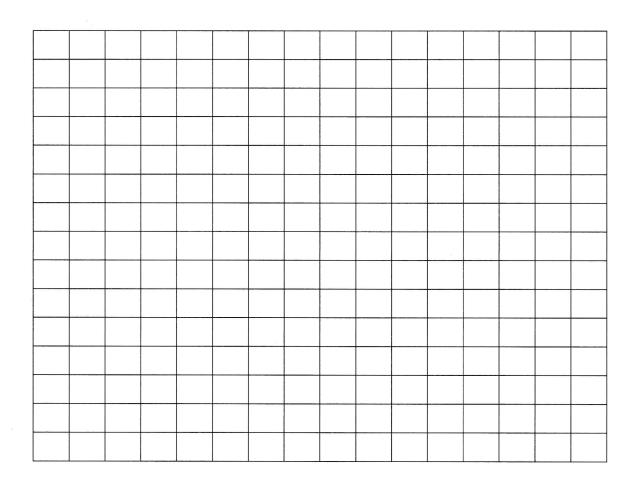
Other: Spreader Bar 1,775 lbs.

a) 34,400

b) 28,000

c) 28,500

d) 28,200



15. What is the wire rope capacity in pounds of the whip line, with two parts and no boom butt mounted auxiliary drum?

Outriggers: N/A

Counterweight: Full

Crawlers: Retracted

Main boom length: 230 ft.

Main boom angle: N/A

a) 29,500b) 59,000c) 40,000d) 20,000

Radius: 160 ft.

Block: 2,650 lbs. (2 parts)

Ball: 500 lbs.

Wire rope main: 1"

Wire rope jib: 1" Hanging 10' from tip.

Jib: 30'

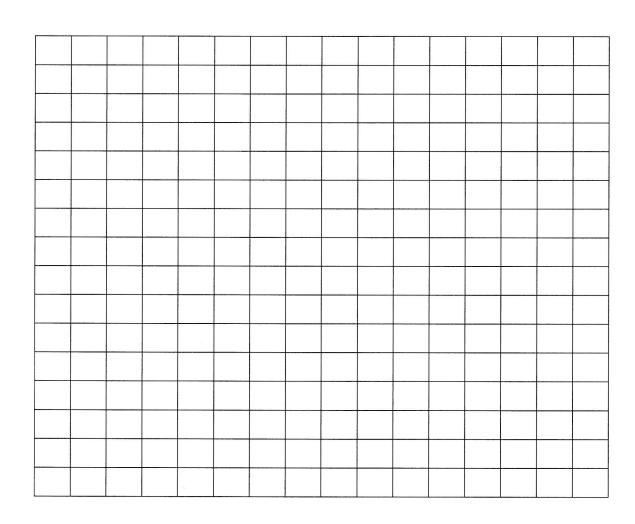
Jib offset: 25<sup>0</sup>

Rigging: 285 lbs.

Other: N/A

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Outriggers: N/A	Ball:
Counterweight: Full	Wire rope main:
Crawlers:	Wire rope jib:
Main boom length:'	Jib:
Main boom angle:	Jib offset:0
Radius:'	Rigging: lbs.
Block:	Other:



Outriggers: N/A	Ball:
Counterweight: Full	Wire rope main:
Crawlers:	Wire rope jib:
Main boom length:'	Jib:'
Main boom angle:	Jib offset: <sup>0</sup>
Radius:'	Rigging: lbs.
Block:	Other:

