

Name:

Exam Style Questions

Imperial Units



Corbettmaths

Equipment needed: Ruler, Pencil, Calculator and Pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Videos 348a, 348b, 348c



Answers and Video Solutions



1. Convert 24 pints into gallons



1 gallon = 8 pints

$$24 \div 8 = 3$$

3
..... gallons
(1)

2. Convert 8 gallons into pints



1 gallon = 8 pints

$$8 \times 8 = 64$$

64
..... pints
(1)

3. Convert 10 pints into gallons



1 gallon = 8 pints

$$10 \div 8 = 1.25$$

1.25
..... gallons
(1)

4. Convert 0.452 gallons into pints



1 gallon = 8 pints

$$0.452 \times 8$$

3.616
..... pints
(1)

5. Convert 5 stone into pounds



1 stone = 14 pounds

$$5 \times 14$$

..... 70 pounds
(1)

6. Convert 42 pounds into stone



1 stone = 14 pounds

$$42 \div 14 = 3$$

..... 3 stone
(1)

7. Convert 16.5 stone into pounds



1 stone = 14 pounds

$$16.5 \times 14$$

..... 231 pounds
(1)

8. Convert 192.5 pounds into stone



1 stone = 14 pounds

$$192.5 \div 14$$

..... 13.75 stone
(1)

9. Convert 4 pounds into ounces.



1 pound = 16 ounces

$$4 \times 16 = 64$$

..... 64 ounces
(1)

10. Convert 160 ounces into pounds.



1 pound = 16 ounces

$$160 \div 16 = 10$$

..... 10 pounds
(1)

11. Convert 1.5 stone into ounces.



1 stone = 14 pounds
1 pound = 16 ounces

$$1.5 \times 14 = 21$$

$$21 \times 16 = 336$$

..... ounces
(1)

12. Convert 1344 ounces into stone.



1 stone = 14 pounds
1 pound = 16 ounces

$$1344 \div 16 = 84$$

$$84 \div 14 = 6$$

..... 6 stone
(1)

13. Convert 13 yards into feet.



1 yard = 3 feet

$$13 \times 3$$

..... 39 feet
(1)

14. Convert 75 yards into feet.



1 yard = 3 feet

$$75 \times 3$$

..... 225 feet
(1)

15. Convert 9 feet into yards.



1 yard = 3 feet

$$9 \div 3 = 3$$

..... 3 yards
(1)

16. Convert 24 inches into feet



1 foot = 12 inches

$$24 \div 12 = 2$$

..... 2 feet
(1)

17. Convert 9 feet into inches



1 foot = 12 inches

$$9 \times 12$$

..... 108 inches
(1)

18. Convert 4 feet into inches



1 foot = 12 inches

$$4 \times 12 = 48$$

..... 48 inches
(1)

19. Convert 2 miles into yards



1 mile = 1760 yards

$$2 \times 1760$$

..... 3520 yards
(1)

20. Convert 1 mile into feet



1 mile = 1760 yards

1 yard = 3 feet

$$1760 \times 3 = 5280$$

..... 5280 feet
(1)

21. Rhys is 5 foot 2 inches tall.
Rebecca is 61 inches tall.



There are 12 inches in a foot.

Who is taller?

You must show your working

$$\begin{aligned}5 \times 12 &= 60 \\60 + 2 &= 62 \text{ inches (Rhys)} \\62 &> 61\end{aligned}$$

Rhys
(2)

22. 5 friends want to ride a rollercoaster.



Albert is 4 foot 5 inches.

Beth is 4 foot 7 inches.

Carl is 4 foot 8 inches.

Dara is 4 foot 4 inches.

Ernie is 4 foot 9 inches.

$$48 + 5 = 53 \times$$

$$48 + 7 = 55 \checkmark$$

$$48 + 8 = 56 \checkmark$$

$$48 + 4 = 52 \times$$

$$48 + 9 = 57 \checkmark$$

1 foot = 12 inches

$$4 \text{ foot} = 48 \text{ inches}$$

The minimum height to ride the rollercoaster is 54 inches.

What fraction of the friends are tall enough to ride the rollercoaster?

$$\frac{3}{5}$$

$\frac{3}{5}$
(3)

23. Write these measurements in order of size, smallest first.



240 inches

4 yards

15 feet

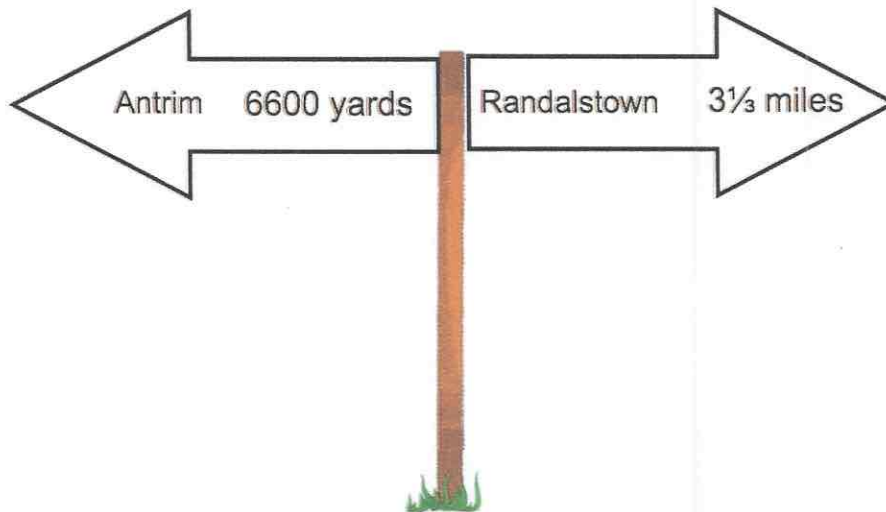
$$240 \div 12 = 20 \text{ foot} \quad 12 \text{ foot}$$

1 foot = 12 inches

1 yard = 3 feet

4 yards, 15 feet, 240 inches
(2)

24. This sign is found on a road between two towns.



Which town is further away?
You must show your working

1 mile = 1760 yards

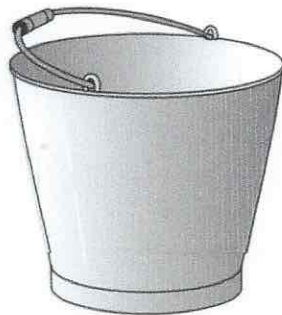
$$3\frac{1}{3} \times 1760 = 5866.\bar{6} \text{ yards}$$

$$6600 > 5866.\bar{6}$$

Antrim

(2)

25. Clive is filling jugs from a 2.2 gallon bucket of milk. Each jug holds 0.75 pints of milk.



2.2 gallons



0.75 pints

There are 8 pints in a gallon.

How many jugs can be filled completely?

$$2.2 \times 8 = 17.6 \text{ pints}$$

$$17.6 \div 0.75 = 23.466\dots$$

23 jugs
(3)

26. Dan is 6 feet 4 inches tall. *76 inches*
Sam is 5 feet tall. *60 inches*



Find Dan's height : Sam's height

Give the ratio in its simplest form.

$$6 \times 12 = 72$$

$$72 + 4 = 76 \text{ inches (Dan)}$$

$$5 \times 12 = 60 \text{ inches (Sam)}$$

$$76 : 60$$

$$38 : 30$$

$$19 : 15$$

19 : 15
(3)