This problem gives you the chance to:

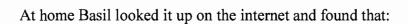
· work with the circumference of a circle

The circumference of a circle, $C = \pi d$, where d is the diameter

Basil saw a strange old bicycle at the museum.

It had one very big wheel and one very small one.

It was called an 'Ordinary' or a 'Penny Farthing'.



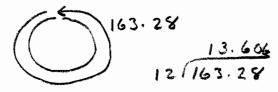
the big wheel could have a 52 inch diameter and the small wheel could have an 18 inch diameter.



1. What is the circumference of the big wheel? Show how you figured it out.

2. How far would you travel in one turn of the big wheel? Give your answer in feet and inches. Show how you figured it out.

/63,28 inches



- Give your answer to the nearest 10 turns.

4. How many times does the small wheel turn when the cycle travels 1 mile? Give your answer to the nearest 10 turns. 1,121 turns Show how you figured it out.

$$C = 71 d$$

$$C = 71 (18)$$

$$12 (56.52 in)$$

$$1.57 yds$$

$$3 (4.21)$$

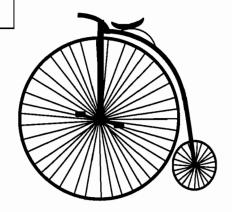
T2

This problem gives you the chance to:

• work with the circumference of a circle

The circumference of a circle, $C = \pi d$, where d is the diameter

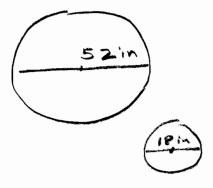
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At home Basil looked it up on the internet and found that:

the big wheel could have a 52 inch diameter and the small wheel could have an 18 inch diameter.

1. What is the circumference of the big wheel? Show how you figured it out.



2. How far would you travel in one turn of the big wheel? Give your answer in feet and inches. Show how you figured it out.

Give your answer to the nearest 10 turns. Show how you figured it out.

32 times

$$C = 163.28$$

 $5,280 \div 163.28 = 32.33$

4. How many times does the small wheel turn when the cycle travels 1 mile?

Give your answer to the nearest 10 turns.

Show how you figured it out.

This problem gives you the chance to:

· work with the circumference of a circle

T3

The circumference of a circle, $C = \pi d$, where d is the diameter

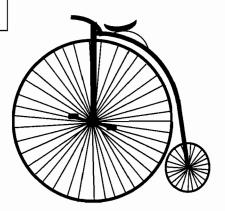
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At home Basil looked it up on the internet and found that:

the big wheel could have a 52 inch diameter and the small wheel could have an 18 inch diameter.



1. What is the circumference of the big wheel? Show how you figured it out.

$$C = \pi d d = 52$$
 $C = \pi \cdot 52$

163.36 inches

2. How far would you travel in one turn of the big wheel? Give your answer in feet and inches.

Show how you figured it out.

13 feet 6 inches

T3

Give your answer to the nearest 10 turns. Show how you figured it out.

388 turns

4. How many times does the small wheel turn when the cycle travels 1 mile? Give your answer to the nearest 10 turns.

Show how you figured it out.

1123

$$\pi.18=C$$
 $C=56.54866776$
 $56.557-12$
 4.71238898
 $4 Feet Finches$
 $5280 \div 4.7$

T4

This problem gives you the chance to:

work with the circumference of a circle

The circumference of a circle, $C = \pi d$, where d is the diameter

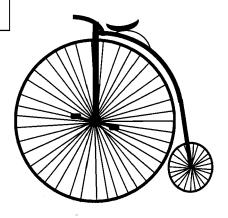
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It had one very big wheel and one very small one.

It was called an 'Ordinary' or a 'Penny Farthing'.

At home Basil looked it up on the internet and found that:

the big wheel could have a 52 inch diameter and the small wheel could have an 18 inch diameter.



1. What is the circumference of the big wheel? Show how you figured it out.

26x77

81 inches

2. How far would you travel in one turn of the big wheel? Give your answer in feet and inches. Show how you figured it out.

81:12-6.75

Show how you figured it out.

St turns

1760x3=5280f+

4. How many times does the small wheel turn when the cycle travels 1 mile? Give your answer to the nearest 10 turns. Show how you figured it out.

9x77 1turn = 2.3

This problem gives you the chance to:

· work with the circumference of a circle

T5

The circumference of a circle, $C = \pi d$, where d is the diameter

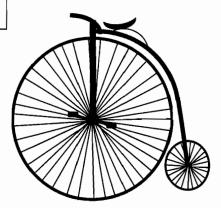
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1. What is the circumference of the big wheel? Show how you figured it out.

\63.36 inches

I used the equation at the top

c=xd and etered 52 inch the

diameter into the d the enter

2. How far would you travel in one turn of the big wheel? Give your answer in feet and inches. Show how you figured it out.

13 feet **7** inches

I divided 163 by 12 which got me howmany feet and the remainer get methe inches.

Page 4

3. How many times must the cyclist turn the big wheel to travel 1 mile? (A mile is 1760 yards.)

T5

Give your answer to the nearest 10 turns. Show how you figured it out.

400 turns

multiplied 1760 by 3 trendivided by 13 because that's how far the big wheel turns once

4. How many times does the small wheel turn when the cycle travels 1 mile?

Give your answer to the nearest 10 turns.

Show how you figured it out.

Multiplied 1760 by 3 then divided it by 4.7 because that showfar the little wheel turnsonce

This problem gives you the chance to:

· work with the circumference of a circle

S1

The circumference of a circle, $C = \pi d$, where d is the diameter

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1. What is the circumference of the big wheel? Show how you figured it out.

163.28 inches

2. How far would you travel in one turn of the big wheel? Give your answer in feet and inches. Show how you figured it out.

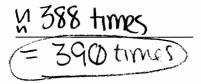
$$13$$
 feet 7.28 inches

3. How many times must the cyclist turn the big wheel to travel 1 mile? (A mile is 1760 yards.)

Give your answer to the nearest 10 turns.

Show how you figured it out.

5280



13ft 7,28in

5280 = 13.61

4. How many times does the small wheel turn when the cycle travels 1 mile?

Give your answer to the nearest 10 turns. Show how you figured it out.

C=718

6280-56.52 \$ 1120 times

1121,019

S2

This problem gives you the chance to:

· work with the circumference of a circle

The circumference of a circle, $C = \pi d$, where d is the diameter

Basil saw a strange old bicycle at the museum.

It had one very big wheel and one very small one.

It was called an 'Ordinary' or a 'Penny Farthing'.

At home Basil looked it up on the internet and found that:

the big wheel could have a 52 inch diameter and the small wheel could have an 18 inch diameter.



1. What is the circumference of the big wheel? Show how you figured it out.

\63.4 inches

2. How far would you travel in one turn of the big wheel? Give your answer in feet and inches. Show how you figured it out.

$$\frac{163.4}{12}$$
 = 13.6

$$\sqrt{3}$$
 feet 6 inches

3. How many times must the cyclist turn the big wheel to travel 1 mile? (A mile is 1760 yards.)

S2

Give your answer to the nearest 10 turns. Show how you figured it out.

410 turns.

$$\frac{13}{3} = 4\frac{1}{3}$$

$$\frac{1760}{4\frac{1}{3}} = 406.15$$

4. How many times does the small wheel turn when the cycle travels 1 mile?

Give your answer to the nearest 10 turns.

Show how you figured it out.

2640 to 15.

$$C=\pi(18)$$

$$= \frac{56.5}{12} \text{ in}$$

$$= 4.47 \text{ Tm.}$$

$$= 1.5 \text{ yds}$$

$$= 1.5 \text{ yds}$$

$$= 160 \times 1.5 = 2640$$

S3

This problem gives you the chance to:

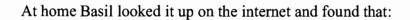
· work with the circumference of a circle

The circumference of a circle, $C = \pi d$, where d is the diameter

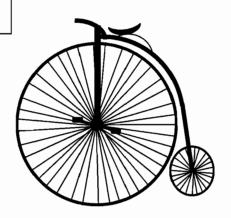
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the big wheel could have a 52 inch diameter and the small wheel could have an 18 inch diameter.

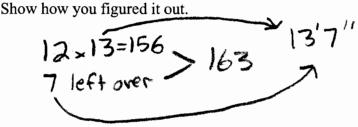


1. What is the circumference of the big wheel? Show how you figured it out.

On the calculator, 527=163.36

163.36 inches

2. How far would you travel in one turn of the big wheel? Give your answer in feet and inches.



13 feet 7 inches



- 3. How many times must the cyclist turn the big wheel to travel 1 mile? (A mile is 1760 yards.)
 - Give your answer to the nearest 10 turns.
 - Show how you figured it out.

388. B. turns

4. How many times does the small wheel turn when the cycle travels 1 mile? Give your answer to the nearest 10 turns. 1133 turns Show how you figured it out.

$$18\pi = 56.54$$

$$12x4=48$$
 $4'8''=4.66$ 8 leftover

This problem gives you the chance to:

· work with the circumference of a circle

S4

The circumference of a circle, $C = \pi d$, where d is the diameter

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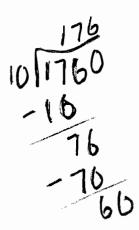
1. What is the circumference of the big wheel? Show how you figured it out.

163.28 inches

2. How far would you travel in one turn of the big wheel? Give your answer in feet and inches. Show how you figured it out.

\3_ feet _1_ inches

391.1



4. How many times does the small wheel turn when the cycle travels 1 mile?

Give your answer to the nearest 10 turns.

Show how you figured it out.

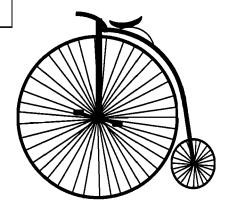
This problem gives you the chance to:

· work with the circumference of a circle

S5

The circumference of a circle, $C = \pi d$, where d is the diameter

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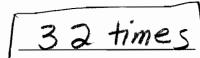
1. What is the circumference of the big wheel? Show how you figured it out.

163.28 inches

2. How far would you travel in one turn of the big wheel? Give your answer in feet and inches. Show how you figured it out.

13 feet 6 inches

3. How many times must the cyclist turn the big wheel to travel 1 mile? (A mile is 1760 yards.)

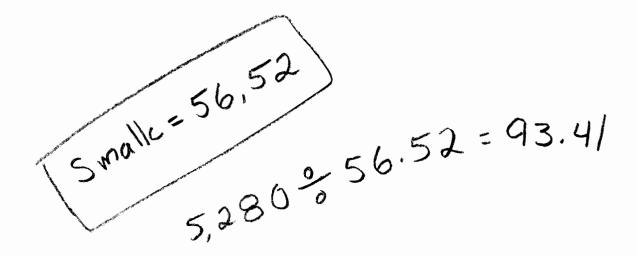


Give your answer to the nearest 10 turns. Show how you figured it out.

4. How many times does the small wheel turn when the cycle travels 1 mile?

Give your answer to the nearest 10 turns.

Show how you figured it out.

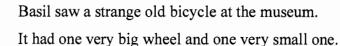


Page 7

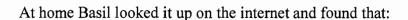
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· work with the circumference of a circle

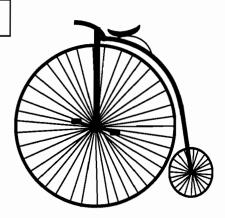
The circumference of a circle, $C = \pi d$, where d is the diameter



It was called an 'Ordinary' or a 'Penny Farthing'.



the big wheel could have a 52 inch diameter and the small wheel could have an 18 inch diameter.



1. What is the circumference of the big wheel? Show how you figured it out.

Show how you figured it out.

2. How far would you travel in one turn of the big wheel? Give your answer in feet and inches.

c =
$$163.28$$

$$163.28$$
= $13'.6$

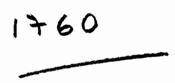
3. How many times must the cyclist turn the big wheel to travel 1 mile? (A mile is 1760 yards.)

633.60

Give your answer to the nearest 10 turns. Show how you figured it out.

634 turns

63360 3 feet = 1 yard 1 Mile = 1760 1 nches yards



= 100 KB

700.68

4. How many times does the small wheel turn when the cycle travels 1 mile?

Give your answer to the nearest 10 turns.

Show how you figured it out.

This problem gives you the chance to:

· work with the circumference of a circle

The circumference of a circle, $C = \pi d$, where d is the diameter

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At home Basil looked it up on the internet and found that:

the big wheel could have a 52 inch diameter and the small wheel could have an 18 inch diameter.



1. What is the circumference of the big wheel? Show how you figured it out.

$$_{-}=\pi .52$$
 $\pi 52=163.362818$

163,362818 inches

2. How far would you travel in one turn of the big wheel? Give your answer in feet and inches. Show how you figured it out.

13 feet 7,32 linches

$$\frac{7}{12} = .583 = 7 \text{in}$$

Show how you figured it out.

$$1766.3 = 5280 = Roughly 390 turns$$

4. How many times does the small wheel turn when the cycle travels 1 mile? Give your answer to the nearest 10 turns.

Show how you figured it out.

This problem gives you the chance to:

· work with the circumference of a circle

The circumference of a circle, $C = \pi d$, where d is the diameter

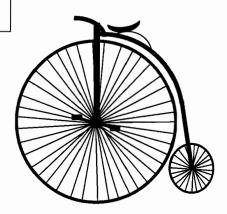
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the big wheel could have a 52 inch diameter and the small wheel could have an 18 inch diameter.



1. What is the circumference of the big wheel? Show how you figured it out.

Thow how you figured it out.

I multiplied Pi by 50 which is the diameter.

2. How far would you travel in one turn of the big wheel? Give your answer in feet and inches. Show how you figured it out.

13 feet 7 inches

I divided 163 by 12 and got 13.58

3. How many times must the cyclist turn the big wheel to travel 1 mile? (A mile is 1760 yards.)

Give your answer to the nearest 10 turns. Show how you figured it out.

390 turns

I multiplied PKO by 3 and got 5280 feet.
Then divided 5280 by 13.58 and got 388.809.

4. How many times does the small wheel turn when the cycle travels 1 mile? Give your answer to the nearest 10 turns.

Show how you figured it out. I digured out the circumfrence. Got the feet and inches then Did the same thing I did for

This problem gives you the chance to:

· work with the circumference of a circle

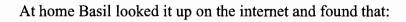
S9

The circumference of a circle, $C = \pi d$, where d is the diameter

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It was called an 'Ordinary' or a 'Penny Farthing'.



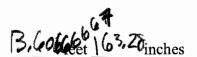
the big wheel could have a 52 inch diameter and the small wheel could have an 18 inch diameter.



1. What is the circumference of the big wheel? Show how you figured it out.

163,28 inches

How far would you travel in one turn of the big wheel? Give your answer in feet and inches. Show how you figured it out.



3. How many times must the cyclist turn the big wheel to travel 1 mile? (A mile is 1760 yards.)

Give your answer to the nearest 10 turns.

Show how you figured it out.

410

4. How many times does the small wheel turn when the cycle travels 1 mile? Give your answer to the nearest 10 turns.

Show how you figured it out.

Show how you rigured

TT(18)

3,14(18) = 56.52

24.6

34.6

1turn=4.6 ft 1.73.33 1turn=1.5 yds. 1.317760 turn 5:1173.33 Nearest 10 turn 5: 1170

This problem gives you the chance to:

· work with the circumference of a circle

The circumference of a circle, $C = \pi d$, where d is the diameter

Basil saw a strange old bicycle at the museum. It had one very big wheel and one very small one. It was called an 'Ordinary' or a 'Penny Farthing'.

At home Basil looked it up on the internet and found that:

the big wheel could have a 52 inch diameter and the small wheel could have an 18 inch diameter.



1. What is the circumference of the big wheel? Show how you figured it out.

163.4 inches

2. How far would you travel in one turn of the big wheel? Give your answer in feet and inches. Show how you figured it out.

3. How many times must the cyclist turn the big wheel to travel 1 mile? (A mile is 1760 yards.) 360 in Give your answer to the nearest 10 turns.

Show how you figured it out.

S10

390 turns

Buded 160 justs to feet, therindes, then divided 63360 in & 163.4 in.

4. How many times does the small wheel turn when the cycle travels 1 mile?

Give your answer to the nearest 10 turns.

Show how you figured it out.

56.5 63360/56.5 directive