

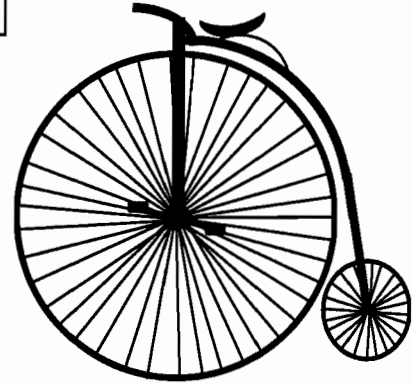
# Historic Bicycle

T1

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.

163.28 inches ✓ |

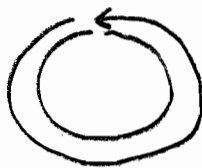
$C = \pi d$

$C = \pi (52)$  ✓

$C = 163.28$

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 ✓ |



163.28

$12 \overline{) 163.28}$   
 13.606

$163.28$  ✓  
 $- 156$   


---

 7.28

T1

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.

391.1 turns ✓ 1

$$3 \overline{) 13.606} \quad \text{about 5 yards}$$

$$4.535 \overline{) 1760} \quad \checkmark$$

2

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.

1,121 turns ✓ 1

$$C = \pi d$$

$$C = \pi (18)$$

$$12 \overline{) 56.52 \text{ in}} \quad \text{4.78 ft.}$$

$$3 \overline{) 4.21} \quad \text{1.57 yds} \quad \checkmark$$

$$1.57 \overline{) 1760} \quad \text{1,121.01 turns}$$

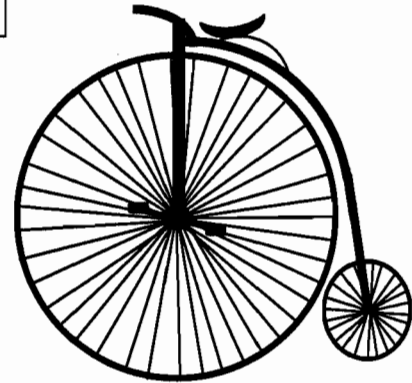
# Historic Bicycle

# 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*



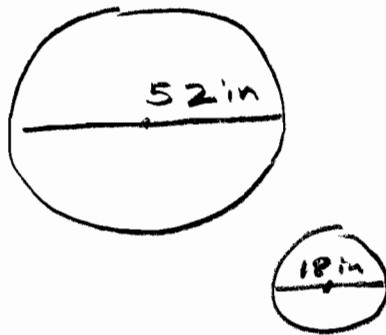
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At home Basil looked it up on the internet and found that:

**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.

$$C = 163.28 \text{ inches}$$



$$\pi \cdot 52 = 163.28$$

$$\pi \cdot 18 = 56.52$$

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.

$$13 \text{ feet } 6 \text{ inches}$$

$$12 \overline{) 163.28}$$

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.

T2  
 x  
32 times 0

$$C = 163.28$$

$$5,280 \div 163.28 = 32.33$$

(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.

x 0  
93 times

$$C = 5,280 \div 56.52 = 93.412$$

↑

# Historic Bicycle

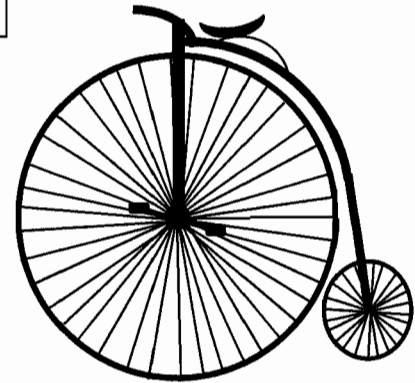
# T3

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.

$$C = \pi d \quad d = 52$$
$$C = \pi \cdot 52$$
$$C = 163.362818$$

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.

C

$$163.362818 \div 12$$

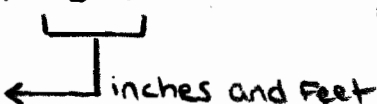
13 feet 6 inches ✓

T3

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.

308 turns ✓ 1

$$5280 \div 13.6$$



2

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 ✓ 1

$$\pi \cdot 18 = C$$

$$C = 56.54866776$$

$$\boxed{56.55} \div 12$$

$$= 4.71238898$$

4 Feet 7 inches

$$5280 \div 4.7$$

$$= 1123.404255$$

1

# Historic Bicycle

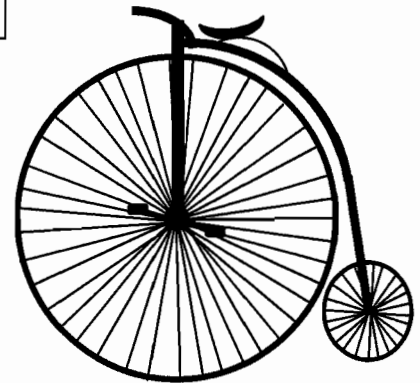
# T4

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*

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.

163.362818 inches ✓ |

$$52 \times \pi = 163.362818$$
 ✓ |

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 61<sup>x</sup> inches ✓ | 0

$$163.362818 \div 12 = 13.61356817$$
 ✓ |

T4

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.

$$\frac{130 \times \text{turns}}{1760}$$

$$13.61356817 \times 130 = 1769.763862$$

(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.

$$\frac{370 \times \text{turns}}{1760}$$

$$4.71238898 \times 374 = 1742.433979$$

0



# Historic Bicycle

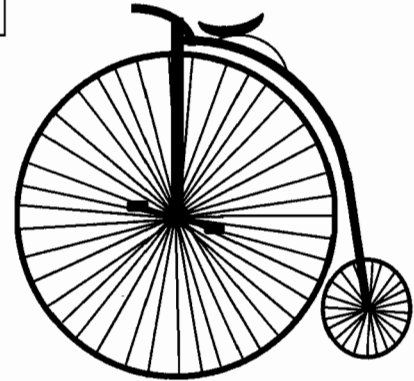
# T5

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.

163.36 ✓ inches

I used the equation at the top  
 $C = \pi d$  and entered 52 inch the  
diameter into the calculator ✓

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 how many  
feet and the remainder got me the inches. ✓

$$\begin{array}{r} 12 \overline{) 163} \\ -12 \phantom{0} \\ \hline 43 \\ -36 \phantom{0} \\ \hline 7 \end{array}$$

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.

T5

$\times$   
 $\underline{400 \text{ turns}} \quad 0$

multiplied 1760 by 3 then divided  
 by 3 because that's how far  
 the big wheel turns once

2 ft

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.

$\checkmark$   
 $\underline{1,120 \text{ turns}} \quad 1$

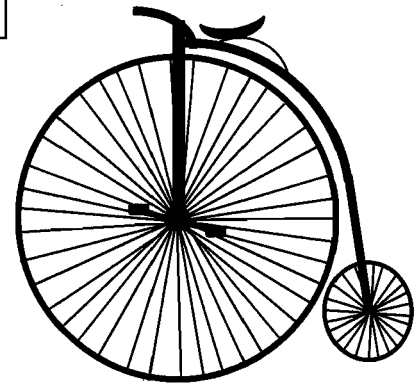
Multiplied 1760 by 3 then divided it  
 by 4.7 because that's how far  $\checkmark$   
 the little wheel turns once

# Historic Bicycle

S1

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.

163.28 ✓ inches

$$C = \pi 52 = 163.28 \quad \checkmark$$

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

$$\begin{array}{r} 163.28 \\ \hline 12 = \\ \hline 13 \text{ ft } 7 \text{ in} \end{array} \quad \checkmark$$

S1

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

$$\begin{array}{r} \approx 388 \text{ times} \\ \hline = 390 \text{ times} \end{array}$$

13ft 7.28in

$$\begin{array}{r} 5280 \div 13.61 \\ = \\ 387.95 \end{array}$$

2

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.

$$C = \pi r$$

$$5280 \div 4.71$$

$$\approx 1120 \text{ times}$$

1121.019

# Historic Bicycle

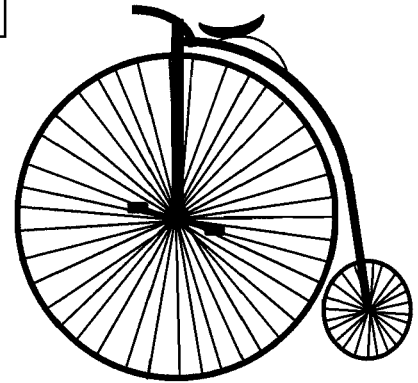
# S2

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.

163.4 ✓ inches |

$C = \pi(52)$  ✓  
 $C = 163.4$  ✓

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<sup>x</sup> inches | 0

$\frac{163.4}{12} = 13.6$  ✓

S2

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.

$$\underline{410^x \text{ turns. } 0}$$

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

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

2

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.

$$\underline{2640^x \text{ turns. } 0}$$

$$C = \pi(18)$$

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

$$= \frac{4.71 \text{ in.}}{3}$$

$$= 1.5 \text{ yds}$$

$$1760 \times 1.5 = 2640$$

1

## Historic Bicycle

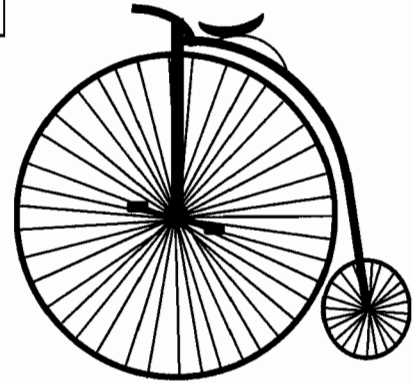
# S3

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*

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.

On the calculator,  $52\pi = 163.36$  ✓

163.36 inches ✓

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

$12 \times 13 = 156$   
7 left over  $\rightarrow 163$   
 $\rightarrow 13'7''$  ✓

13 feet 7 inches ✓

S3

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.

388.8 turns 1

$7 \div 12 = .58$       One mile = 5280 ft

$5280 \div 13.58 = 388.8$  ✓

2

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.

1133 turns<sup>x</sup> 0

$18\pi = 56.54$  ✓  
 $12 \times 4 = 48$  ✓  
 8 leftover  
 $4'8'' = 4.66$ <sup>x</sup> ✓  
 $5280 \div 4.66 = 1133$  ✓

1

9

8

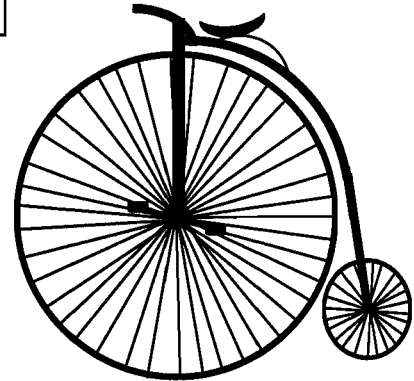


# Historic Bicycle

# S4

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.

163.28 ✓ inches |

1 0

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 |

1 0

S4

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.

$$\underline{391.1} \quad \checkmark \quad 1$$

$$\begin{array}{r} 176 \\ 10 \overline{)1760} \\ \underline{-10} \phantom{0} \\ 76 \phantom{0} \\ \underline{-70} \phantom{0} \\ 60 \end{array}$$

^

0

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.

$$\underline{1,121} \quad \checkmark \quad 1$$

^

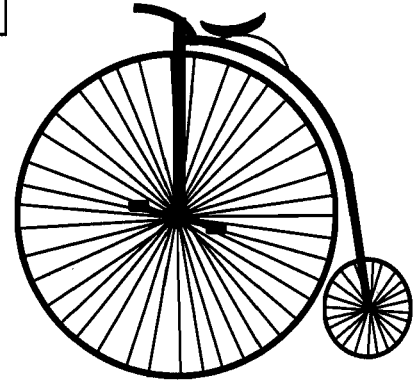
0

# Historic Bicycle

# S5

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*

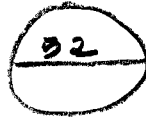


Basil saw a strange old bicycle at the museum.  
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At home Basil looked it up on the internet and found that:

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

$\pi = 3.14$



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

$163.28$  inches ✓ |

$$\begin{array}{r} 3.14 \\ \times 52 \\ \hline 163.28 \end{array}$$
 ✓ |

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 ✓ | 0

$12 \text{ inch} = 1 \text{ foot}$

$$12 \overline{) 163.28} = 13.60667$$
 ✓ |

S5

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.

32<sup>x</sup> times

$$5,280 \text{ in} = 1 \text{ mile}$$

$$5,280 \div 163.28 = 32.33$$

(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.

93 times

Small = 56.52

$$5,280 \div 56.52 = 93.41$$

✓

1ft

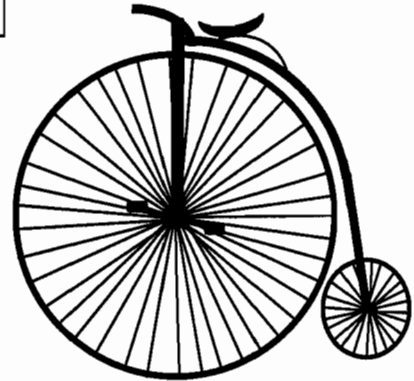
## Historic Bicycle

# S6

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.

$$\underline{163.28} \text{ inches}$$

$$C = 3.14 \cdot 52''$$
$$C = \pi(d)$$

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.

$$\underline{13} \text{ feet } \underline{7} \text{ inches}$$

$$C = 163.28''$$
$$\frac{163.28}{12 \text{ F}} = 13'.6$$

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.

$$3 \text{ feet} = 1 \text{ yard}$$

$$\underline{1760}$$

$$700.68$$

$$= 63360 \text{ inches}$$

$$\begin{array}{r} 634 \\ \times 2 \\ \hline 1268 \end{array}$$

$$\begin{array}{r} 633.60 \\ \times 634 \text{ turns} \\ \hline \end{array}$$

$$\begin{array}{l} 3 \text{ feet} = 1 \text{ yard} \\ 1 \text{ Mile} = 1760 \\ \text{yards} \end{array}$$

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.

$$\begin{array}{r} 1268 \\ \times \\ \hline \end{array}$$

1 0 0

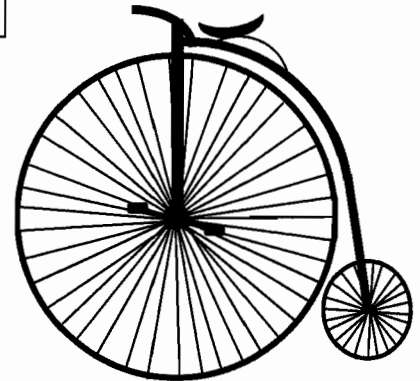
# Historic Bicycle

# S7

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.

$$C = \pi d$$
$$\underline{\quad} = \pi \cdot 52 \quad \pi 52 = 163.362818$$
$$C = 163.362818$$

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.

$$156 \div 12 = 13 \text{ ft.}$$
$$\underline{7.362 \text{ in.}}$$
$$163.362$$

13 feet 7.362 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.

390 ✓ 1

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

2

$$1760 \cdot 3 = \frac{5280}{13.583} = \text{Roughly } 390 \text{ turns}$$

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.

1130 ✓ 1

~~$C = \pi d$   
 $56.548 = \pi \cdot 18$   
 $\frac{48}{12} = 5$   
 $48 + 8 = 56$   
 $\uparrow$   
 8 in  
~~58 in turn~~  
 $58.548'' = 1 \text{ turn}$~~

big wheel d.  
 $\frac{52}{18} = 2.888888889$   
 small wheel d.  
 390 = Amount of turns in 1m for big wheel  
 $390 \cdot 2.888888889 = 1126.666$   
Round Up  
 1130 turns ✓



## Historic Bicycle

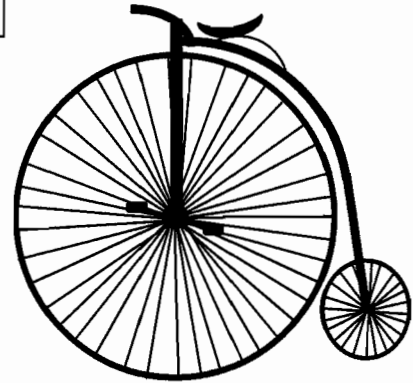
# S8

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.

I multiplied pi by 52 which is the diameter.

163.363 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.

I divided 163 by 12 and got 13.58

~~4~~ 10  
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.

S8

390 turns

I multiplied 1760 by 3 and got 5280 feet.  
 Then divided 5280 by 13.58 and got 388.809.

2

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.

1240 turns

I figured out the circumference. Got the feet and inches then did the same thing I did for # 3.

1

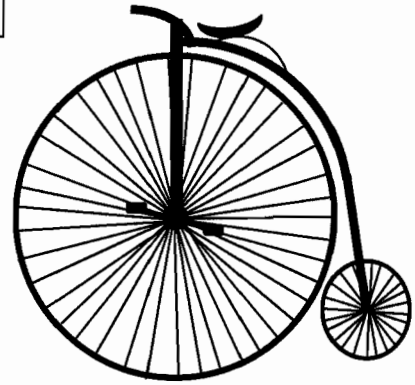
# Historic Bicycle

# S9

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 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.

$$\begin{aligned} &\pi(52) \\ &3.14(52) \\ &163.28 \end{aligned}$$

$$\underline{163.28} \text{ inches}$$

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.

$$\begin{aligned} &12 \overline{) 163.28} = 13.6066 \\ &1 \overline{) 163.28} \end{aligned}$$

$$\underline{13.6066} \text{ feet } \underline{163.28} \text{ inches}$$

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.

$$\underline{410} \times \quad 0$$

1 turn = 13 ft.  $\overset{4.3}{\overline{)13}}$   
 1 turn = 4.3 yds.  $\overset{409.30}{\overline{)1760}}$   
 turns: 409.30  
 Nearest 10 turns 410

2

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.

$$\underline{1170} \times \quad 0$$

$\pi(18)$   
 $3.14(18) = 56.52$   
 $\overset{4.6}{\overline{)56.52}}$   
 $\overset{1.5}{\overline{)56.52}}$

1

1 turn = 4.6 ft  
 1 turn = 1.5 yds.  $\overset{1173.33}{\overline{)1760}}$   
 turns: 1173.33  
 Nearest 10 turns: 1170

# Historic Bicycle

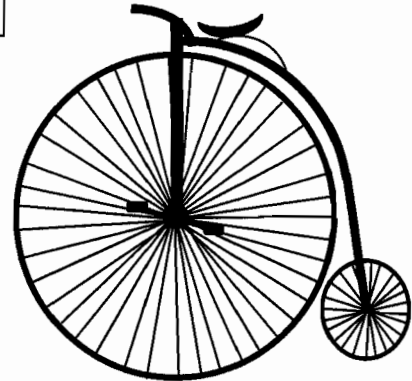
# S10

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.

$\pi \times 52 = C$  for the big wheel,  $C = 163.4$

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.

$163.4 / 12$  ✓

^

13 ✓ feet 62<sup>x</sup> inches 0

3. How many times must the cyclist turn the big wheel to travel 1 mile?  
 (A mile is 1760 yards.)  $\rightarrow 5280 \text{ ft} \rightarrow 63360 \text{ in}$   
 Give your answer to the nearest 10 turns.  
 Show how you figured it out.

S10

390 turns

1

*Round 1760 yards to feet, then inches, then divided 63360 in by 163.4 in.*

✓

2

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.

1120 turns

1

56.5  
 $63360 / 56.5 \text{ (circumference)}$

✓

1