This problem gives you the chance to:

- form expressions
- · form and solve an equation to solve an age problem

T1

Will is w years old.

Ben is 3 years older.

1. Write an expression, in terms of w, for Ben's age.

Jan is twice as old as Ben.

2. Write an expression, in terms of w, for Jan's age.

If you add together the ages of Will, Ben and Jan the total comes to 41 years.

3. Form an equation and solve it to work out how old Will, Ben, and Jan are.

Will is ________

years old

Ben is

11

years old

Jan is

22

years old

$$W+(W+3)+2(W+3)=41$$

 $W+W+3+2W+6=41$
 $4W+4=41$
 $-9-9$
 $4W=32$
 $4W=32$
 $4W=8$

because Jan 13 14 years older than will so, 28-14 = 14. which means, in 6 years Jan will be 28 & will will be 19 & 14 is half of 28.

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Will is w years old.

Ben is 3 years older.

1. Write an expression, in terms of w, for Ben's age.

W+3=B

Jan is twice as old as Ben.

2. Write an expression, in terms of w, for Jan's age.

a(w+3)=J

If you add together the ages of Will, Ben and Jan the total comes to 41 years.

3. Form an equation and solve it to work out how old Will, Ben, and Jan are.

Ben is Jan is

Will is

years old

years old

years old

Jan is already twice as old as Ben who is 3 years older than will so no matter what age any of them are at, Jan is always going to be order (more than truce as much) than will.

This problem gives you the chance to:

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T3

Will is w years old.

Ben is 3 years older.

1. Write an expression, in terms of w, for Ben's age.

Ben's age 5 W+3

Jan is twice as old as Ben.

2. Write an expression, in terms of w, for Jan's age.

Jan'sage = 2(4+3)

If you add together the ages of Will, Ben and Jan the total comes to 41 years.

3. Form an equation and solve it to work out how old Will, Ben, and Jan are.

Will is years old

Ben is years old

Jan is 22 years old

4. In how ma	any years will	Jan be twice as old	d as Will?	6		years
Explain how	you figured it	out.				•••• •••
In	6 years	will will be	H- 14 times	i two is	28	
_	olus 6 i	_		·	·.·	
•	•					
						

This problem gives you the chance to:

- form expressions
- · form and solve an equation to solve an age problem

T4

Will is w years old.

Ben is 3 years older.

1. Write an expression, in terms of w, for Ben's age.

X= W+3

Jan is twice as old as Ben.

2. Write an expression, in terms of w, for Jan's age.

x= W.2

If you add together the ages of Will, Ben and Jan the total comes to 41 years.

3. Form an equation and solve it to work out how old Will, Ben, and Jan are.

15 10 8 13 11 13 26 22

Show your work.

odd 3 wals odd equals

22+11+8=41

4. In how many years will Jan be twice as old as Will?	years
Explain how you figured it out.	
guess an age like 12 if its	to Low
then guess another numb	er like
14 and check	<u> </u>

This problem gives you the chance to:

- form expressions
- · form and solve an equation to solve an age problem

T5

Will is w years old.

Ben is 3 years older.

1. Write an expression, in terms of w, for Ben's age.

Wr3

Jan is twice as old as Ben.

2. Write an expression, in terms of w, for Jan's age.

2(6+3)

If you add together the ages of Will, Ben and Jan the total comes to 41 years.

3. Form an equation and solve it to work out how old Will, Ben, and Jan are.

Will is

years old

Ben is

- 11

years old

Jan is

29

years old

ben 1		ι.	,			
9	23	t' _/ 5	·	,		
16	24					
it	25				•	
12	24					
13	27					
14	28/					

This problem gives you the chance to:

- · form expressions
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S1

Will is w years old.

Ben is 3 years older.

1. Write an expression, in terms of w, for Ben's age.

Bensage>w+3

Jan is twice as old as Ben.

2. Write an expression, in terms of w, for Jan's age.

Jun's Ege = 2(W+3)

If you add together the ages of Will, Ben and Jan the total comes to 41 years.

3. Form an equation and solve it to work out how old Will, Ben, and Jan are.

W= 8 Ben=11 Jun=22

Will is ______ years

_ years old

Ben is

years old

Jan is

22

years old

$$41 = 4w + 9 - 32 = 4w - 7w = 8$$
Page 8 How Old Are They? Test 9

first, I subtracted 8 from 22 to find at how old Jan was when will was burn. Then, I found out it used was 14. Next Inguessed and check method with they will see. I said when he is 14, Im will be 28 (because he is 14 years older than him). Last I 22 from 28 to see how many years until Jan is twice will sage.

Jan was 14 when w was born

W= 14

This problem gives you the chance to:

- form expressions
- · form and solve an equation to solve an age problem

S2

Will is w years old.

Ben is 3 years older.

1. Write an expression, in terms of w, for Ben's age.

W+3=Bon's age

Jan is twice as old as Ben.

2. Write an expression, in terms of w, for Jan's age.

2wt3= Jans age

If you add together the ages of Will, Ben and Jan the total comes to 41 years.

3. Form an equation and solve it to work out how old Will, Ben, and Jan are.

Will is years old

Ben is years old

Jan is ______ years old

4.	In 1	how	many	vears	will J	an be	twice	as old	as	Will
т.	111	110 44	111011 9	ycuis	AA III A	an oc	CVVICC	as olu	uЗ	44 117

7	6	years	U Z

This problem gives you the chance to:

- form expressions
- form and solve an equation to solve an age problem

S3

Will is w years old. = \bigvee

Ben is 3 years older.

1. Write an expression, in terms of w, for Ben's age.

Jan is twice as old as Ben.

2. Write an expression, in terms of w, for Jan's age.

If you add together the ages of Will, Ben and Jan the total comes to 41 years.

3. Form an equation and solve it to work out how old Will, Ben, and Jan are.

Will is years old

Ben is years old

Jan is years old



4.	In	how	many	years	will	Jan	be twice	as	old as	Will?

6		G
0	years	OU

I guessed and checked.

Page 9

This problem gives you the chance to:

- · form expressions
- · form and solve an equation to solve an age problem

S4

Will is w years old.

Ben is 3 years older.

1. Write an expression, in terms of w, for Ben's age.

Benis 3+w

3+w

Jan is twice as old as Ben.

2. Write an expression, in terms of w, for Jan's age.

2(3 tw)

If you add together the ages of Will, Ben and Jan the total comes to 41 years.

3. Form an equation and solve it to work out how old Will, Ben, and Jan are.

Will is

years old

Ben is

~ //

years old

Jan is

22

years old

$$\frac{2(3+w)+3+w+w=41}{9+2w+3+2w=41}$$

$$\frac{9+2w+3+2w=41}{9+4w=41}$$

$$\frac{2(3+8)=27}{9+16=27}$$

$$\frac{11w-32}{4w^2-32}$$

4.	In	how	many	vears	will	Jan	be	twice	as	old	as	Will?
••	111	110 11	mung	y cars	AA 111	Juli		***100	ub	Olu	uВ	* * 111 .

years S4

Explain how you figured it out.

9 - 23
10-24
11-25
12-26
17-29
14-28
15 -29
16 - 30
19 -31
18 -32
19 733
20 - 34
21 -35
22 - 34
73 -37
24 - 28

This problem gives you the chance to:

- form expressions
- form and solve an equation to solve an age problem

S5

Will is w years old.

Ben is 3 years older.

1. Write an expression, in terms of w, for Ben's age.

w+3

Jan is twice as old as Ben.

2. Write an expression, in terms of w, for Jan's age.

2 (W+3)

If you add together the ages of Will, Ben and Jan the total comes to 41 years.

3. Form an equation and solve it to work out how old Will, Ben, and Jan are.

Will is

8

years old

Ben is

years old

Jan is

22

years old

4.	In 1	how	many	vears	will Jan	be	twice	as	old as	Will?
	TTI 1	110 11	many	y cars	Will Suil	UU		u	OIG G	, ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

(0
	_

vears

\$5

Explain how you figured it out.

This problem gives you the chance to:

- form expressions
- form and solve an equation to solve an age problem

S6

Will is w years old.

Ben is 3 years older.

1. Write an expression, in terms of w, for Ben's age.

W+3____

Jan is twice as old as Ben.

2. Write an expression, in terms of w, for Jan's age.

2(w+3)

If you add together the ages of Will, Ben and Jan the total comes to 41 years.

3. Form an equation and solve it to work out how old Will, Ben, and Jan are.

Will is

F

years old

Ben is

_11

years old

Jan is

22

years old

Show your work.

use guess and check

$$317.5 \div 2 = 8$$
 $317.5 \div 2 = 8$
Ben
 $17.5 \div 3 = 20.5 \div 2$
 $(w+3)\div 2$

Will

4. In how many years will Jan be twice as old as Will?	G years
	· ago
Explain how you figured it out.	
Jan was twice as old as Will G	years ago.
Because Jan is twice as old as	s Ben who is
older than Will.	· .

This problem gives you the chance to:

- form expressions
- · form and solve an equation to solve an age problem

S7

Will is w years old.

Ben is 3 years older.

1. Write an expression, in terms of w, for Ben's age.

b= W+3

Jan is twice as old as Ben.

2. Write an expression, in terms of w, for Jan's age.

J=26

If you add together the ages of Will, Ben and Jan the total comes to 41 years.

3. Form an equation and solve it to work out how old Will, Ben, and Jan are.

Will is years old

Ben is years old

Jan is ____

years old

Show your work.

4

90123

4. In how many years will Jan be twice as old as Will?	6	years
explain how you figured it out. added a year to each per until Will was half of	Jours	e age
	w 1	3 /

This problem gives you the chance to:

- form expressions
- · form and solve an equation to solve an age problem

S8

Will is w years old.

Ben is 3 years older.

1. Write an expression, in terms of w, for Ben's age.

W=W+3

Bel= W+3

Jan is twice as old as Ben.

2. Write an expression, in terms of w, for Jan's age.

2= m+3(3) 2=m+3(9) 5=w+3(2)

If you add together the ages of Will, Ben and Jan the total comes to 41 years.

3. Form an equation and solve it to work out how old Will, Ben, and Jan are.

Will is

7

years old

Ben is

years old

Jan is

アク

years old

4. In how many years will Jan be twice as old as Will?	6	years
Explain how you figured it out.		

This problem gives you the chance to:

- · form expressions
- · form and solve an equation to solve an age problem

S9

Will is w years old.

Ben is 3 years older.

1. Write an expression, in terms of w, for Ben's age.

Jan is twice as old as Ben.

2. Write an expression, in terms of w, for Jan's age.

If you add together the ages of Will, Ben and Jan the total comes to 41 years. 41 = 4 + 12

3. Form an equation and solve it to work out how old Will, Ben, and Jan are.

Will is years old

Ben is years old

Jan is 32 years old

4. In how many years will Jan be twice as old	d as	Will?
---	------	-------

8	~
---	---

S9

years

Explain how you figured it out.

Mell 77+8=30

then divide

30 by 2 you

You get will at age 15 & Jan @30

then you add 8 to Ja

and get

- The

twice

as ala

be when

This problem gives you the chance to:

- · form expressions
- · form and solve an equation to solve an age problem

S10

Will is w years old.

Ben is 3 years older.

1. Write an expression, in terms of w, for Ben's age.

 $\omega+3$

Jan is twice as old as Ben.

2. Write an expression, in terms of w, for Jan's age.

 $a(\omega+3)$

If you add together the ages of Will, Ben and Jan the total comes to 41 years.

3. Form an equation and solve it to work out how old Will, Ben, and Jan are.

W+W+3+2W+6

4w+9=41

4w=32 w=8

Will is

_8__

years old

Ben is

11

years old

Jan is

years old

4	In how	manv	vears	will	Jan	be	twice	as	old	as	Will?
т.	III IIOW	many	ycars	AA 111	Jan	UU	****	us	Old	us	** 111 .

		C-	10
φ	years	O	IU

Explain how you figured it or	ut.



