ORDERING FRACTIONS

CONTENT DOMAIN REFERENCES:

1

[2013]

A

6.7   6.8   6.9   7.0   7.1   7.2
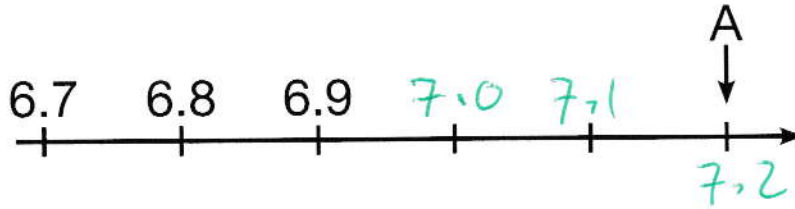
What number is marked at A?

7.2

[1 mark]

2

[2007]

Write these numbers in order of size, starting with the smallest.

3.01 ✓   13.0 ✓   0.31 ✓   1.30 ✓   3.1 ✓

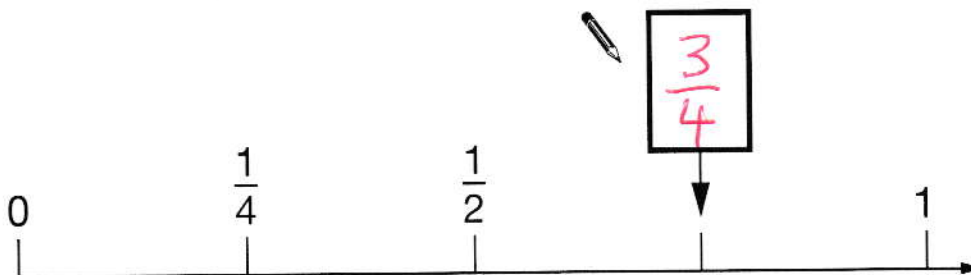| 0.31 | 1.30 | 3.01 | 3.1 | 13.0 |

smallest

[1 mark]

3

[2011]

Here is part of a number line.

Write in the missing fraction.

$\frac{3}{4}$

0 $\frac{1}{4}$ $\frac{1}{2}$ 1

[1 mark]

4

Write these numbers in order of size, starting with the **smallest**.

1.9	0.96	1.253	0.328
4	2	3	1

0.328	0.96	1.253	1.9

smallest

[1 mark]

5

Put a tick (✓) in **each row** to complete this table.

One has been done for you.

	greater than $\frac{1}{2}$	less than $\frac{1}{2}$
0.9	✓	
0.06		✓
$\frac{11}{20}$	✓	
0.21		✓

[2 marks]

6

What number is halfway between 1.4 and 2.1?

1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1

1.75

1.75
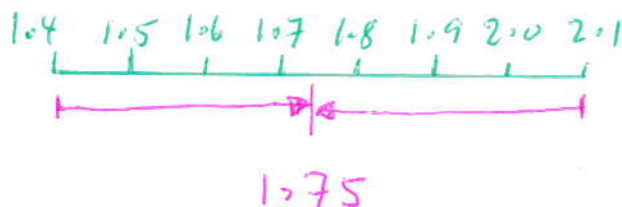
[1 mark]

A fraction of each shape is shaded.
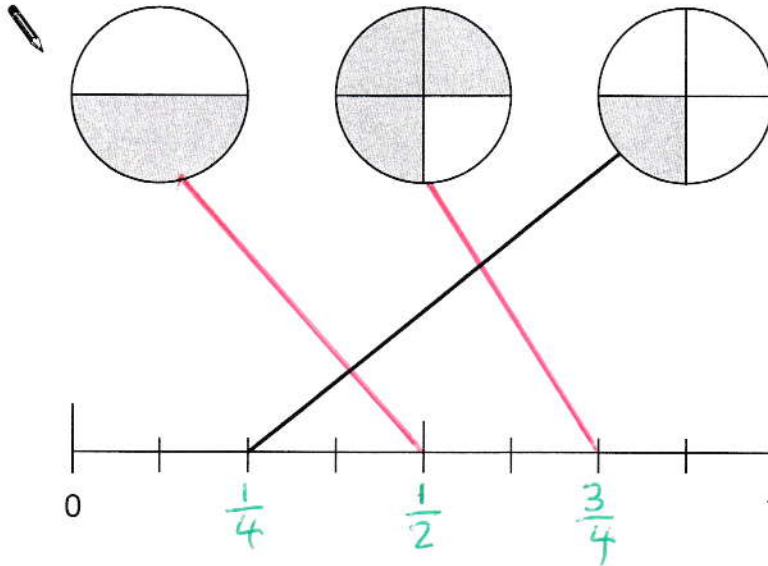
Match each fraction to the correct place on the number line.

One has been done for you.

$$0 \qquad \frac{1}{4} \qquad \frac{1}{2} \qquad \frac{3}{4} \qquad 1$$

[2 marks]

Write these numbers in order, starting with the **smallest**.

0.78	0.607	5.6	0.098	4.003
3	2	5	1	4

0.098	0.607	0.78	4.003	5.6

smallest

[1 mark]

Write in the **missing** number on this number line.

9.8	10	10.2	10.4
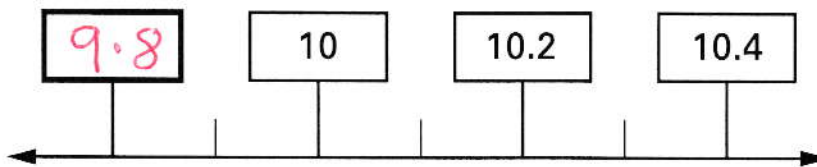
[1 mark]

10 [2002]

Circle the number **closest** in value to **0.1**

🖊 0.01   0.05   (0.11)   0.2   0.9

[1 mark]

11 [2016S]

Here are four fraction cards.

$>\frac{1}{2}$ $\frac{1}{2}$ $<\frac{1}{2}$

$\boxed{\dfrac{3}{4}}$ $\boxed{\dfrac{5}{8}}$ $\boxed{\dfrac{6}{12}}$ $\boxed{\dfrac{7}{16}}$

Use any **three** of the cards to make this correct.

$\boxed{\dfrac{7}{16}}$ < $\boxed{\dfrac{6}{12}}$ < $\boxed{\dfrac{5}{8}}$

[ALSO

$\frac{7}{16} < \frac{6}{12} < \frac{3}{4}$

$\frac{7}{16} < \frac{5}{8} < \frac{3}{4}$

$\frac{6}{12} < \frac{5}{8} < \frac{3}{4}$

[1 mark]

12 [2007]

Circle **all** the numbers that are **greater than** 0.6

🖊 0.5   (0.8)   0.23   0.09   (0.67)

[1 mark]

13 [2014]

Write these numbers in order, starting with the smallest.

8.12   1.8   8.118   8.2   1.28
4   2   3   5   1

🖊 $\boxed{1.28}$ $\boxed{1.8}$ $\boxed{8.118}$ $\boxed{8.12}$ $\boxed{8.2}$

smallest

[1 mark]

14 In each box, circle the number that is **greater**.

[2017]

$\left(1\frac{1}{2}\right)$ 1.2

1·5

$1\frac{1}{4}$ $\left(1.3\right)$

1·25

$1\frac{5}{100}$ $\left(1.4\right)$

1·05

$\left(1\frac{3}{5}\right)$ 1.5

1·6

[2 marks]

15 Circle the number that is closest to 20

[2015]

$\left(19.95\right)$ 20.1   19.09   20.09   20.201

[1 mark]

16

Here is part of a number line.

Write in the two missing numbers.

$1\frac{1}{2}$ $1\frac{3}{4}$ 2 $2\frac{1}{4}$ $2\frac{1}{2}$ $2\frac{3}{4}$

$1\frac{1}{2}$ $2\frac{3}{4}$
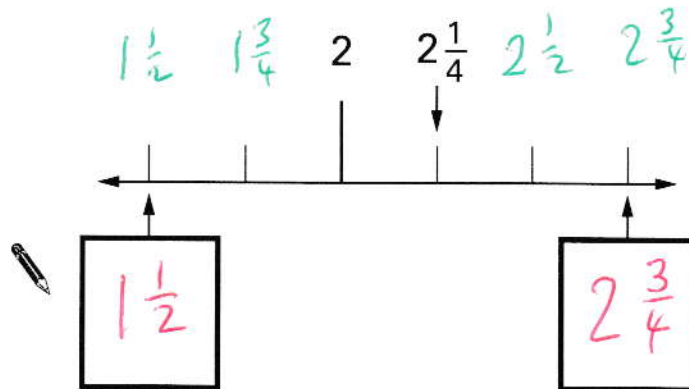
[2 marks]

17

Adam says,

0.25 is **smaller** than $\frac{2}{5}$

Explain why he is correct.

BECAUSE $\frac{2}{5}$ = 0.4 AND 0.25 IS SMALLER THAN 0.4!

[1 mark]

18 Circle the fraction that is greater than $\frac{1}{2}$ but less than $\frac{3}{4}$

[2010]

$\frac{7}{8}$ $\frac{2}{5}$ $\frac{1}{3}$ $\left(\frac{5}{8}\right)$ $\frac{3}{6}$

$> \frac{1}{2}$ $> \frac{1}{2}$

[1 mark]

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19 Write these in order of size, starting with the smallest.

[2013]

$\frac{2}{3}$,   0.5 $\frac{3}{5}$ 0.65

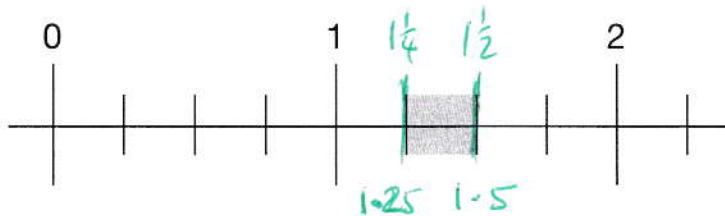0.6 0.6

0.5	$\frac{3}{5}$	0.65	$\frac{2}{3}$
smallest			

[1 mark]

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20 Part of this number line is shaded.

[2007]

   0   1 $1\frac{1}{4}$ $1\frac{1}{2}$ 2

                   1.25 1.5

Circle **all** the numbers below that belong in the shaded part of the number line.

1.1 $\left(1.4\right)$ $\left(1\frac{1}{3}\right)$ $1\frac{1}{5}$

[1 mark]

Write these fractions in order of size starting with the smallest.

$$\frac{3}{4} \qquad \frac{3}{5} \qquad \frac{9}{10} \qquad \frac{17}{20}$$

0.75   0.6   0.9   0.85
  2   1   4   3

| $\frac{3}{5}$ | $\frac{3}{4}$ | $\frac{17}{20}$ | $\frac{9}{10}$ |

smallest

[1 mark]

Write these in order of size, starting with the smallest.

0.75   0.43

$$\frac{3}{4}_4 \qquad 0.34 \qquad 0.7 \qquad 43\%$$
        1   3   2

| 0.34 | 43% | 0.7 | $\frac{3}{4}$ |

smallest

[1 mark]

What fraction is **exactly** half-way between $\frac{3}{5}$ and $\frac{5}{7}$?

[FIND COMMON DENOMINATOR!]

$$\frac{3}{5} = \frac{21}{35} \quad , \quad \frac{5}{7} = \frac{25}{35}$$

HALFWAY BETWEEN $\frac{21}{35}$ AND $\frac{25}{35}$

IS $\frac{23}{35}$

$$\boxed{\frac{23}{35}}$$

[1 mark]